

705/412

URGENT

approved

Access DB# 105385
(13)

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Igor Borissov Examiner #: 79247 Date: 10-5-03
Art Unit: 3629 Phone Number 30 54649 Serial Number: 09/542854
Mail Box and Bldg/Room Location: CPK5-702 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____
Inventors (please provide full names): see attached

Earliest Priority Filing Date: 04/04/2000

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

BORISSOV 3629

09/542854 105385

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: _____	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: _____	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____



STIC Search Report

EIC 3600

STIC Database Tracking Number: 105385

TO: Igor Borissov
Location: PK5-7C22
Art Unit: 3629
Monday, October 06, 2003

Case Serial Number: 09542854

From: Elizabeth Deal *ED*
Location: EIC 3600
PK5-Suite 804
Phone: 305-5783

elizabeth.deal@uspto.gov

Search Notes

Dear Igor,

Attached are the results of the above-referenced search. If you have any questions or comments, please feel free to contact me.

Libby

File 347:JAPIO Oct 1976-2003/May(Updated 030902)
(c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200363
(c) 2003 Thomson Derwent
File 35:Dissertation Abs Online 1861-2003/Sep
(c) 2003 ProQuest Info&Learning
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group
File 65:Inside Conferences 1993-2003/Oct W1
(c) 2003 BLDSC all rts. reserv.
File 2:INSPEC 1969-2003/Sep W4
(c) 2003 Institution of Electrical Engineers
File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
(c) 2003, EBSCO Pub.
File 474:New York Times Abs 1969-2003/Oct 03
(c) 2003 The New York Times
File 475:Wall Street Journal Abs 1973-2003/Oct 03
(c) 2003 The New York Times
File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Aug
(c) 2003 The HW Wilson Co.
File 95:TEME-Technology & Management 1989-2003/Sep W3
(c) 2003 FIZ TECHNIK

Set	Items	Description
S1	6960769	POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITIES OR ENERGY OR CURRENT
S2	46960	S1(2N) (NETWORK? ? OR GRID)
S3	29305	FLOW()GATE? ? OR FLOWGATE? ? OR BOTTLENECK? OR BOTTLE()NEC- K? ? OR BLACKOUT? OR BLACK??()OUT? ? OR (INSUFFICIEN? OR INAD- EQUATE OR SCARCE OR DEFICIENT OR ("NOT"()ENOUGH) OR SHORT)() (- SUPPLY OR CAPACITY)
S4	12055866	NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR ARR- ANG? OR FACILITAT? OR DISTRIBUT? OR MANAG? OR CONTROLL? OR HA- NDL? OR COORDINAT? OR SYNCHRONI? OR TRANSFER? OR INCREAS?
S5	3504640	(REAL OR SAME)()TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR IMMEDIAT? OR INSTANT? OR PROMPT? OR NOW OR TIMELY OR UP(1W)D- ATE OR UP(2W)MINUTE OR SIMULTANEOUS? OR SYNCHRONOUS? OR CONCU- RRENT? OR BEHIND(2W)SCENE? OR ON()FLY
S6	12	S2 AND S3 AND (S4(5N)S5)
S7	1	S6 FROM 347,350
S8	11	S6 NOT S7
S9	9	RD (unique items)
S10	5	S9 NOT PY>2000
S11	7	(S1(5N)S4) AND (S2(5N)S3) AND S5
S12	5	S11 NOT S6
S13	401	(S1 AND S3 AND S4) FROM 347,350
S14	16	S13 AND (IC=(H02J-000/00 OR H02J-003/00 OR G06F-017/60) OR MC=(T01-J05A OR X12-H01B OR X12-H03A))

7/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014096703 **Image available**
WPI Acc No: 2001-580917/200165
Related WPI Acc No: 2001-335620; 2001-580918; 2002-049656; 2002-089942;
2002-434191; 2003-076172
XRPX Acc No: N01-432691

System for managing AC power networks based on flow - gate market transactions by contracting power transfer on each flow gate of the gate collection

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: CAZALET E G; FU C; SAMUELSON R; STREMEL J; TENEV T
Number of Countries: 091 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200141279	A1	20010607	WO 2000US22487	A	20000816	200165 B
AU 200067781	A	20010612	AU 200067781	A	20000816	200165
NO 200202555	A	20020717	WO 2000US22487	A	20000816	200260
			NO 20022555	A	20020529	
EP 1234368	A1	20020828	EP 2000955602	A	20000816	200264
			WO 2000US22487	A	20000816	

Priority Applications (No Type Date): US 2000542854 A 20000404; US 99168213
P 19991130; US 99163213 P 19991130

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200141279 A1 E 99 H02J-003/00

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200067781 A H02J-003/00 Based on patent WO 200141279

NO 200202555 A H02J-000/00

EP 1234368 A1 E H02J-003/00 Based on patent WO 200141279

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

System for managing AC power networks based on flow - gate market transactions by contracting power transfer on each flow gate of the gate collection

Abstract (Basic):

... an operation (1062), performing contracting of the associated AC power transfer on each of the flow gates of the flow gate collection, to take place over at least a first time interval, while the execution (1064)...

... INDEPENDENT CLAIMS are included for a method for contracting AC power transfer on an AC power network and for a computer system supporting program...

...Controlling AC electrical power transfer in a frequency controlled AC power network .

...Trading transfer rights in a timely , reliable and efficient manner

10/3,K/1 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01657138 ORDER NO: AAD98-26898

MARGIN AND SENSITIVITY METHODS FOR SECURITY ANALYSIS OF ELECTRIC POWER SYSTEMS (POWER BLACKOUTS)

Author: GREENE, SCOTT L.

Degree: PH.D.

Year: 1998

Corporate Source/Institution: THE UNIVERSITY OF WISCONSIN - MADISON (0262)

Source: VOLUME 59/07-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 3613. 277 PAGES

MARGIN AND SENSITIVITY METHODS FOR SECURITY ANALYSIS OF ELECTRIC POWER SYSTEMS (POWER BLACKOUTS)

Reliable operation of large scale electric power networks requires that system voltages and currents stay within design limits. Operation beyond those limits can lead to equipment failures and **blackouts**. Security margins measure the amount by which system loads or power transfers can change before...

...with respect to assumptions, system parameters, operating policy, and transactions. Security margins to voltage collapse **blackouts**, oscillatory instability, generator limits, voltage constraints and line overloads are considered. The usefulness of computing...

...sparse matrix techniques.

Margin sensitivity methods are shown to work effectively for avoiding voltage collapse **blackouts** caused by either saddle node bifurcation of equilibria or immediate instability due to generator reactive...

...margin computation and provides sensitivity information at minimal additional cost. Estimates of the effect of simultaneous transfers on the transfer margins agree well with the exact computations for a network model derived from a portion...

10/3,K/2 (Item 2 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01486885 ORDER NO: AADAA-I9616713

DISTRIBUTED MANAGEMENT BY DELEGATION (NETWORK DELAYS, ELASTIC PROCESSES)

Author: GOLDSZMIDT, GERMAN S.

Degree: PH.D.

Year: 1996

Corporate Source/Institution: COLUMBIA UNIVERSITY (0054)

Source: VOLUME 57/02-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 1200. 226 PAGES

...remote control. The elastic processing architecture extends dynamic linking of delegated agents across remote computers.

Current network management systems follow a platform-centric, static soft-ware paradigm that allocates most responsibilities to...

...unreliable systems. It forces management applications to micro-manage devices, and results in failure-prone **management bottlenecks**, and limitations for **real time** responsiveness. The dissertation presents a more flexible management paradigm, namely Management by Delegation (Mbd). Mbd...

10/3,K/3 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6841312 INSPEC Abstract Number: B2001-03-6210L-166, C2001-03-5620W-072

Title: Implicit admission control

Author(s): Mortier, R.; Pratt, I.; Clark, C.; Crosby, S.

Author Affiliation: Comput. Lab., Cambridge Univ., UK

Journal: IEEE Journal on Selected Areas in Communications vol.18,
no.12 p.2629-39

Publisher: IEEE,

Publication Date: Dec. 2000 Country of Publication: USA

CODEN: ISACEM ISSN: 0733-8716

SICI: 0733-8716(200012)18:12L:2629:IAC;1-I

Material Identity Number: D958-2001-002

U.S. Copyright Clearance Center Code: 0733-8716/2000/\$10.00

Language: English

Subfile: B C

Copyright 2001, IEE

...Abstract: level concepts, such as connections, flows, and sessions when controlling network congestion. This becomes of **increasing** importance as more **real - time** traffic is carried on the Internet, since this traffic is less elastic in nature than traditional Web traffic. We argue that, in order to achieve better **utility** of the **network** as a whole, higher level congestion controls are required. By way of example, we present...

...results are used to show that it can drastically improve the performance of TCP over **bottleneck** links. We go on to describe an implementation of our algorithm for a router running the Linux 2.2.9 operating system. We show that by giving routers at **bottlenecks** the ability to intelligently deny admission to TCP connections, the goodput of existing connections can ...

...Identifiers: **bottleneck** links

10/3,K/4 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6298421 INSPEC Abstract Number: C1999-08-5440-018

Title: Performance tuning software DSM applications using visualisation

Author(s): Brorsson, M.; Kral, M.

Author Affiliation: Dept. of Inf. Technol., Lund Univ., Sweden

Journal: Journal of Supercomputing vol.13, no.3 p.249-65

Publisher: Kluwer Academic Publishers,

Publication Date: May 1999 Country of Publication: Netherlands

CODEN: JOSUED ISSN: 0920-8542

SICI: 0920-8542(199905)13:3L:249:PTSA;1-1

Material Identity Number: L599-1999-003

U.S. Copyright Clearance Center Code: 0920-8542/99/\$9.50

Language: English

Subfile: C

Copyright 1999, IEE

Abstract: Small organisations can now have access to high raw processing **power** using **networks** of workstations (**NOW**) as parallel computing platforms. Software **Distributed** Shared Memory (Software DSM) packages have been developed to facilitate the programming of such systems...

... a tool to visualise the execution of a program in a way that highlights performance **bottlenecks** . The tool associates identified **bottlenecks** with the corresponding source code lines in order to determine what piece of code is...

...Identifiers: performance **bottlenecks** ;

10/3,K/5 (Item 3 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

5850103 INSPEC Abstract Number: C9804-6110P-028

Title: Visualisation for performance tuning of DVSM applications

Author(s): Brorsson, M.; Kral, M.

Author Affiliation: Dept. of Inf. Technol., Lund Univ., Sweden

Conference Title: Proceedings of the Thirty-First Hawaii International
Conference on System Sciences (Cat. No.98TB100216) Part vol.7 p.
532-41 vol.7

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1998 Country of Publication: USA 7 vol.
(xiv+689+ix+346+xi+470+xiv+581+xi+481+xiv+753+xvi+849) pp.

ISBN: 0 8186 8255 8 Material Identity Number: XX98-00245

U.S. Copyright Clearance Center Code: 1060-3425/98/\$10.00

Conference Title: Proceedings of the Thirty-First Hawaii International
Conference on System Sciences

Conference Sponsor: Univ. Hawaii

Conference Date: 6-9 Jan. 1998 Conference Location: Kohala Coast, HI,
USA

Language: English

Subfile: C

Copyright 1998, IEE

Abstract: Small organisations can now have access to high raw processing
power using **networks** of workstations (**NOW**) as parallel computing
platforms. **Distributed** Virtual Shared Memory (DVSM) packages have been
developed to facilitate the programming of such systems...

... a tool to visualise the execution of a program in a way that highlights
performance **bottlenecks** . The tool associates identified **bottlenecks**
with the corresponding source code lines in order to determine what piece
of code is...

...Identifiers: **bottlenecks** ;

12/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6709251 INSPEC Abstract Number: B2000-10-8110C-079

Title: Enhanced power system operation by application of adjustable speed hydro machines

Author(s): Sporild, R.; Gjerde, J.O.; Gjengedal, T.

Author Affiliation: ABB Corp. Res., Billingstad, Sweden

Conference Title: DRPT2000. International Conference on Electric Utility Deregulation and Restructuring and Power Technologies. Proceedings (Cat. No.00EX382) p.372-7

Editor(s): Lai Loi Lei

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2000 Country of Publication: USA xxii+688 pp.

ISBN: 0 7803 5902 X Material Identity Number: XX-1999-03647

U.S. Copyright Clearance Center Code: 0 7803 5902 X/2000/\$10.00

Conference Title: Proceedings of International Conference on Electric Utility Deregulation and Restructuring, and Power Technologies 2000

Conference Sponsor: Nat. Grid Company UK; Electricite de France; Mitsubishi Electr. Corp. Japan; London Electr.; ABB; A.M. Best Int

Conference Date: 4-7 April 2000 Conference Location: London, UK

Language: English

Subfile: B

Copyright 2000, IEE

...Abstract: the adjustable speed hydro (ASH) machine concept as an alternative for obtaining better utilisation of **power networks**. Transmission lines appearing as **bottlenecks** with respect to **power** demand may **increase** their **transfer** capacity as ASH machines are introduced in the network. The paper has given a quantification...

...Identifiers: **dynamic** stability

12/3,K/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

6495745 INSPEC Abstract Number: B2000-03-8240-017

Title: Assessing the benefits of adjustable speed hydro machines

Author(s): Gjengedal, T.; Gjerde, J.O.; Sporild, R.

Author Affiliation: Statkraft SF, Norway

Conference Title: PowerTech Budapest 99. Abstract Records. (Cat. No.99EX376) p.105

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 1999 Country of Publication: USA xviii+308 pp.

ISBN: 0 7803 5836 8 Material Identity Number: XX-1999-00599

U.S. Copyright Clearance Center Code: 0 7803 5836 8/99/\$10.00

Conference Title: Proceedings of 1999 PowerTech Conference

Conference Date: 29 Aug.-2 Sept. 1999 Conference Location: Budapest, Hungary

Language: English

Subfile: B

Copyright 2000, IEE

...Abstract: the adjustable speed hydro (ASH) machine concept as an alternative for obtaining better utilisation of **power networks**. Transmission lines appearing as **bottlenecks** with respect to **power** demand may **increase** their **transfer** capacity as ASH machines are introduced in the network. This is achieved by a quick...

...Descriptors: **synchronous** generators

12/3,K/3 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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01776315 20030800086

**Mittelspannungs-Gleichstrom-Uebertragungsanlage Siplink im Versorgungsnetz.
Leistungselektronik in der regionalen Energieversorgung**

(Medium voltage direct current coupler in distribution networks)

Huebel, I

Siemens, Erlangen, D

ew - Elektrizitaetswirtschaft, v102, n16, pp36-38, 2003

Document type: journal article Language: German

Record type: Abstract

ISSN: 1619-5795

(Medium voltage direct current coupler in distribution networks)

DESCRIPTORS: DC TRANSMISSION; MEDIUM VOLTAGE; ELECTRICS; UTILITY NETWORKS;

INTERACTIVE OPERATION; ELECTRIC POWER UTILITY COMPANIES; INNOVATIONS;

ELECTRIC MAINS; LOAD FLOW; CONTROL; BOTTLE NECK ; ACTIVE POWER ;

NETWORK STUCTURE...

12/3,K/4 (Item 2 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

(c) 2003 FIZ TECHNIK. All rts. reserv.

01693385 20021105443

Sicherheit der Uebertragungsnetze

(Security of transmission systems)

Brauner, G; Haimbl, W; Christiner, G; Popelka, H

TU Wien, A; Verbund-Austrian Power Grid, Wien, A

e & i. Elektrotechnik und Informationstechnik, v119, n10, pp340-346, 2002

Document type: journal article Language: German

Record type: Abstract

ISSN: 0932-383X

DESCRIPTORS: ENERGY TRANSFER OF ELECTRICITY; ELECTRIC MAINS; POWER

SYSTEM NETWORK ADMINISTRATION; BOTTLE NECK ; EUROPE; HIGH VOLTAGE

NETWORKS; CAPACITY UTILIZATION; LOAD FLOW; MARKET; NETWORK LOADS;

INTERACTIVE OPERATION; MAINS FREQUENCY; POWER SYSTEM SIMULATION;

ELECTRICAL POWER SYSTEMS STABILITY; POWER SYSTEM DISTURBANCE; AUSTRIA;

CONGESTION...

12/3,K/5 (Item 3 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

(c) 2003 FIZ TECHNIK. All rts. reserv.

01693383 20021105445

Wie sicher sind Uebertragungsnetze

Haimbl, W; Popelka, H

Verbund-Austrian Power Grid, Wien, A

e & i. Elektrotechnik und Informationstechnik, v119, n10, pp355-356, 2002

Document type: journal article Language: German

Record type: Abstract

ISSN: 0932-383X

DESCRIPTORS: ENERGY TRANSFER OF ELECTRICITY ; ELECTRIC MAINS; BOTTLE

NECK ; HIGH VOLTAGE NETWORKS ; POWER PLANTS; CLIENTS; LOAD FLOW;

INTERACTIVE OPERATION; ELECTRICAL POWER SYSTEMS STABILITY; POWER SYSTEM

DISTURBANCE; AUSTRIA; QUALITY; SAFETY; CONFERENCE PROCEEDINGS; COMPETITION

14/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

07361605 **Image available**
UTILITY SUPPLY SYSTEM

PUB. NO.: 2002-230102 [JP 2002230102 A]
PUBLISHED: August 16, 2002 (20020816)
INVENTOR(s): NARANO JUNZO
MIURA SATORU
KAWAHARA HIDEAKI
APPLICANT(s): OSAKA GAS CO LTD
APPL. NO.: 2001-028149 [JP 20011028149]
FILED: February 05, 2001 (20010205)

UTILITY SUPPLY SYSTEM

INTL CLASS: G06F-017/60 ; H02J-003/00 ; C10L-003/06; F17D-001/02

ABSTRACT

PROBLEM TO BE SOLVED: To economically evade generation of a **short supply** state and an excess supply state in the case of supplying gas from a single...

...from the gas supply network to a customer 9 by set quantity of in the **short supply** state in which the acceptance quantity is less than the paid quantity by the set...

... is decided by a decision means 43 of over and shorts state of supply. Allowed **increase** and decrease of the respective customers 9 are calculated by a quantity **increase** and decrease calculating means 42. The generation of the excess supply state and the **short supply** state is evaded by supplying an excess portion to the customer 9 with the allowed **increase** when the acceptance quantity is in the excess supply state and decreasing a short portion at the customer 9 with the allowed decrease when the acceptance quantity is in the **short supply** state.

COPYRIGHT: (C)2002,JPO

14/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2003 JPO & JAPIO. All rts. reserv.

07163731 **Image available**
DELIVERY DATE ANSWER METHOD AND SYSTEM

PUB. NO.: 2002-032115 [JP 2002032115 A]
PUBLISHED: January 31, 2002 (20020131)
INVENTOR(s): HIKI YUSUKE
TAMURA KIMITAKA
KITA KAZUMASA
IIJIMA TOSHIKAZU
KOBAYASHI HIDEKO
APPLICANT(s): HITACHI LTD
APPL. NO.: 2000-218726 [JP 2000218726]
FILED: July 14, 2000 (20000714)

INTL CLASS: G05B-019/418; G06F-017/60

ABSTRACT

... BE SOLVED: To quickly answer the accurate delivery date under an environment matched with a **current** state even when a production plan is changed due to the shortage of necessary parts...

... information input processing part for processing the input of information of parts which are in **short supply** due to a factor for

interrupting the execution of the production plan, a product constitution
...

... part for executing the reverse development processing of product constitution and an execution disabled plan **management** part for **managing** a production plan of products which can not be produced in accordance with the plan...

14/3,K/3 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

015497071 **Image available**
WPI Acc No: 2003-559218/200352
XRPX Acc No: N03-444543

Remote data acquisition/control system, e.g. for electric power system,
has system intelligence distributed amongst central unit, concentrators
or intermediate stations and electricity meters, all using
bi-directional data communications

Patent Assignee: ENEL DISTRIBUZIONE SPA (ENEL-N)

Inventor: ROGAI S

Number of Countries: 102 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200355031	A2	<u>20030703</u>	WO 2002EP14687	A	20021220	200352 B

Priority Applications (No Type Date): IT 2001MI2726 A 20011220

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200355031 A2 E 16 H02J-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN
YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM
ZW

Remote data acquisition/control system, e.g. for electric power system,
has system intelligence distributed amongst central unit, concentrators
or intermediate stations and electricity meters, all using
bi-directional data communications

Abstract (Basic):

... A set of meters for measuring electric **energy** consumption is
connected through concentrators, or intermediate stations, and
bi-directional data transmission units to...
... For several, dispersed domestic consumers of **electrical power**
, water and gas...

...Guaranteed regular and continuous working even during **blackouts** .

...Title Terms: **POWER** ;

International Patent Class (Main): H02J-000/00

...Manual Codes (EPI/S-X): X12-H01B ...

... X12-H03A

14/3,K/4 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014906050 **Image available**

WPI Acc No: 2002-726756/200279

XRPX Acc No: N02-573097

Utility service system has amount computation unit which calculates
acceptance quantity increase of each customer

Patent Assignee: OSAKA GAS CO LTD (OSAG)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002230102	A	20020816	JP 200128149	A	20010205	200279 B

Priority Applications (No Type Date): JP 200128149 A 20010205

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002230102	A	10	G06F-017/60	

Utility service system has amount computation unit which calculates
acceptance quantity increase of each customer

Abstract (Basic):

... The acceptance quantity increase of each customer (9) is
calculated using an amount computation unit (42), so that over supply
or insufficient supply is prevented.

... Utility service system...

...The figure shows the block diagram of the utility service system.

(Drawing includes non-English language text

...Title Terms: INCREASE ;

International Patent Class (Main): G06F-017/60

...International Patent Class (Additional): H02J-003/00

Manual Codes (EPI/S-X): T01-J05A ...

14/3,K/5 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014877989 **Image available**

WPI Acc No: 2002-698695/200275

XRPX Acc No: N02-550933

Method, system and computer program product for controlling and
regulating electrical loads connected to electrical network, uses
device at load point with means for remote invoking in order to switch on
or off a part load of end user

Patent Assignee: GJERDE J O (GJER-I); GUNDERSEN L S (GUND-I); QUAINANCE W
H (QUAI-I); VU K (VUKK-I); ABB RES LTD (ALLM)

Inventor: GJERDE J O; GUNDERSEN L S; QUAINANCE W H; VU K; GJERDE J;

GUNDERSEN L; QUAINANCE W

Number of Countries: 098 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200269471	A1	20020906	WO 2002SE310	A	20020222	200275 B
US 20020162032	A1	200211031	US 2001793589	A	20010227	200279

Priority Applications (No Type Date): US 2001793589 A 20010227

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200269471	A1	E 40	H02J-003/14	

Designated States (National): AE AG AL AM AU AZ BA BB BG BR BY BZ CA CH
CN CO CR CU DM DZ EC EE ES GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
RU SD SE SG SI SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR

IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

US 20020162032 A1 G06F-001/26

Method, system and computer program product for controlling and

regulating electrical loads connected to electrical network, uses device at load point with means for remote invoking in order to switch...

Abstract (Basic):

... The system, a method, and a computer program product are for load management in an electrical power generation, transmission and distribution network. A device arranged at a load point comprises means for a procedure call that may be remotely invoked...
...or off a part load of an end user for the purpose of load demand management. The invention enables load to be reduced incrementally and restored quickly and automatically and is...
... Method, system and a computer program product for controlling and regulating electrical loads connected to an electrical network
...
...Uses web technology to provide a power network with automated load management in an economic way. In a power network, the invention spreads the load shaving or shedding more evenly over a wide geographical area, as opposed to the traditional method of 'rotating blackouts'. Provides a method and a system for regulation of one or more loads by means...

...Manual Codes (EPI/S-X): X12-H03A

14/3,K/6 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014823356 **image available**
WPI Acc No: 2002-644062/200269
XRPX Acc No: 2002-509135

Item exchange method for the transfer and exchange of electronic items, authorizes one or more buyers of an item to become providers of that item to further buyers

Patent Assignee: BLAU A (BLAU-I)

Inventor: BLAU A

Number of Countries: 100 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200275622	A2	20020926	WO 2002IL216	A	20020319	200269 B

Priority Applications (No Type Date): US 2001277064 P 20010320

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200275622 A2 E 23 G06F-017/60

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

Item exchange method for the transfer and exchange of electronic items, authorizes one or more buyers of an item to become...

Abstract (Basic):

... For the transfer and exchange of electronic items, such as electronic content, certificates, licenses, money, options, contracts, computing power, communication line bandwidth and/or hard disc space
...
...giving priority to high bandwidth peers on the network, the method enables items to be distributed faster, whilst the load on the network is more homogeneous and bandwidth bottlenecks may be reduced

or prevented, possibly eliminating the need for expensive servers and trained personnel managing the servers...

...Title Terms: **TRANSFER** ;
International Patent Class (Main): **G06F-017/60**

14/3,K/7 (Item 5 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014614413 **Image available**
WPI Acc No: 2002-435117/200246
XRPX Acc No: N02-342527

Energy load curtailment method in network-based service, involves providing aggregated data to energy market purchasers for purchase of energy curtailment rights

Patent Assignee: RETX.COM INC (RETX-N)
Inventor: MALME R; SCARPELLI P C
Number of Countries: 094 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200225543	A1	20020328	WO 2001US29090	A	20010918	200246 B
AU 200192727	A	20020402	AU 200192727	A	20010918	200252

Priority Applications (No Type Date): US 2000233419 P 20000918

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200225543 A1 E 67 G06F-017/60

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS
JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL
PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200192727 A G06F-017/60 Based on patent WO 200225543

Energy load curtailment method in network-based service, involves providing aggregated data to energy market purchasers for purchase of energy curtailment rights

Abstract (Basic):

... Curtailment energy commitment data is received through a communication network and aggregated. The aggregated data is provided to energy market purchasers for purchase of energy curtailment rights.

... An INDEPENDENT CLAIM is also included for energy load curtailment system...

...Used in field of network-based services for power generation, transmission, grid management, etc...

...Significant amount of untapped energy resource can be made available during peak demand periods. The energy consumers are transformed into potential energy sellers. Thus the problem of transmission bottlenecks is reduced...

...The figure shows the functional block diagram of the virtual reality system of energy load curtailment method...

Title Terms: **ENERGY** ;
International Patent Class (Main): **G06F-017/60**

14/3,K/8 (Item 6 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014572120 **Image available**
WPI Acc No: 2002-392824/200242
XRPX Acc No: W02-307934

Engine-operated generator for use during power failure, detects the fault in generator when rectified generator output drops below a specified level after interconnection of commercial power system to inverter circuit

Patent Assignee: HONDA GIKEN KOGYO KK (HOND); HONDA MOTOR CO LTD (HOND)
Inventor: FUKUSHIMA T; KAMIMURA K; KOTANI Y; TAMECHIKA T
Number of Countries: 029 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020024323	A1	20020228	US 2001938729	A	20010827	200242 B
EP 1187293	A2	20020313	EP 2001119668	A	20010822	200242
JP 2002078208	A	20020315	JP 2000257701	A	20000828	200242
CN 1340894	A	20020320	CN 2001125852	A	20010828	200246

Priority Applications (No Type Date): JP 2000257701 A 20000828

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20020024323	A1		14	H02J-001/00	
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EP 1187293	A2	E		H02J-003/38	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

JP 2002078208	A		13	H02J-003/38	
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CN 1340894	A			H02J-003/00	
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Engine-operated generator for use during power failure, detects the fault in generator when rectified generator output drops below a specified level after interconnection of commercial power system to inverter circuit

Abstract (Basic):

... A connector relay (135) interconnects inverter circuit (13) to a commercial power supply (14). The connector relay is opened when the rectified generator output drops below specified...

... Engine-operated generator apparatus e.g. generator for use in case of blackout or power failure...

...such as line breakage in winding during operation of generator is detected with a simple arrangement. Adverse effects on commercial power system at interconnection with inverter circuit, is minimized while engine is run steadily, enabling rectified...

...Commercial power supply (14...

...Title Terms: POWER ;

...International Patent Class (Main): H02J-003/00

14/3,K/9 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014096703 **Image available**
WPI Acc No: 2001-580917/200165
Related WPI Acc No: 2001-335620; 2001-580918; 2002-049656; 2002-089942;
2002-434191; 2003-076172
XRPX Acc No: N01-432691

System for managing AC power networks based on flow - gate market transactions by contracting power transfer on each flow gate of the gate collection

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: CAZALET E G; FU C; SAMUELSON R; STREMEL J; TENEV T
Number of Countries: 091 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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WO 200141279	A1	20010607	WO 2000US22487	A	20000816	200165	B
AU 200067781	A	20010612	AU 200067781	A	20000816	200165	
NO 200202555	A	20020717	WO 2000US22487	A	20000816	200260	
			NO 20022555	A	20020529		
EP 1234368	A1	20020828	EP 2000955602	A	20000816	200264	
			WO 2000US22487	A	20000816		

Priority Applications (No Type Date): US 2000542854 A 20000404; US 99168213 P 19991130; US 99163213 P 19991130

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200141279 A1 E 99 H02J-003/00

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200067781 A H02J-003/00 Based on patent WO 200141279

NO 200202555 A H02J-000/00

EP 1234368 A1 E H02J-003/00 Based on patent WO 200141279

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

System for managing AC power networks based on flow - gate market transactions by contracting power transfer on each flow gate of the gate collection

Abstract (Basic):

... flow of execution (1060) for a starting operation (1022) goes to an operation (1062), performing **contracting** of the associated AC **power transfer** on each of the **flow gates** of the **flow gate** collection, to take place over at least a first time interval, while the execution (1064)...

... INDEPENDENT CLAIMS are included for a method for **contracting** AC **power transfer** on an AC **power** network and for a computer system supporting program...

... **Controlling** AC **electrical** **power** **transfer** in a frequency controlled AC **power** network...

...Trading **transfer** rights in a timely, reliable and efficient manner...

...The drawing shows operation of the flow **transfer** over a first time interval

...Title Terms: **MANAGE** ;

International Patent Class (Main): H02J-000/00 ...

... H02J-003/00

International Patent Class (Additional): G06F-017/60

Manual Codes (EPI/S-X): T01-J05A ...

... X12-H01B ...

... X12-H03A

14/3,K/10 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012305113 **Image available**

WPI Acc No: 1999-111219/199910

XRFX Acc No: N99-081091

Electric- power management system for electric power consumption billing system - uses power utilization calculating device of total fee

management apparatus to compute power consumption fee of power
requirement installation based on power consumption information
received via stationary satellite

Patent Assignee: TOSHIBA KK (TOKE)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10334385	A	19981218	JP 97141898	A	19970530	199910 B

Priority Applications (No Type Date): JP 97141898 A 19970530

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 10334385	A	13	G08C-015/00	

Electric- power management system for electric power consumption
billing system...

...uses power utilization calculating device of total fee management
apparatus to compute power consumption fee of power requirement
installation based on power consumption information received via
stationary satellite

...Abstract (Basic): NOVELTY - The power utilization calculating device
(150c) of a total fee management apparatus (100) computes the
utilization fee corresponding to the power consumption of a power
requirement installation (300) at home based on the power consumption
amount data received by the management apparatus from the power
requirement installation via a stationary satellite (200). DETAILED
DESCRIPTION - The power consumption detector (350b) of a power
requirement installation (300) determines the amount of power
consumption of an automatic installation at a predetermined time based
on the output information from a electric supply meter (360). The
transmission controller of the power requirement installation
enables the transmission of the output of the power consumption
detector to a total fee management apparatus (100) as a power
consumption amount information via a stationary satellite. The
reception controller (150b) of the total fee management apparatus
allows the reception of the sent power consumption amount information

...USE - For charging consumer regarding consumed electric power at home
using communication satellite system...

...ADVANTAGE - Enables management of power consumption and billing of
the power requirement installation even without checking electric
supply meter. Power consumption of power requirement installation
can be reduced via satellite when consumption level is more than
predetermined value. Can quickly correspond to short supply of
electric power in power requirement installation. DESCRIPTION OF
DRAWING(S) - The figure shows the block diagram of the circuit
component of an electric- power management system. (100) total fee
management apparatus; (150b) reception controller; (150c) power
utilization calculating device; (200) stationary satellite; (300)
power requirement installation; (350b) power consumption detector;
(360) electric supply meter...

...Title Terms: POWER;

...International Patent Class (Additional): H02J-003/00

14/3,K/11 (Item 9 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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011621575 **Image available**

WPI Acc No: 1998-038703/199804

XRPX Acc No: N98-031175

Network flow managing method for water works and electric power
system - involves obtaining influence of variation in flow corresponding

to network operation and predicting variation in flow in particular
sub-block

Patent Assignee: HITACHI JOHO SEIGYO SYSTEM KK (HITA-N); HITACHI LTD (HITA

)
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9292922	A	19971111	JP 96103053	A	19960425	199804 B

Priority Applications (No Type Date): JP 96103053 A 19960425

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 9292922	A		9 G05D-007/06	

**Network flow managing method for water works and electric power
system...**

...Abstract (Basic): The network flow **managing** method involves prediction
of variation in flow accompanied by branch switching and other
operations, and...

...ADVANTAGE - Improves efficiency of calculation of network flow. Improves
efficiency of avoiding **bottle necks**. Enables correct extraction of
part related to local operation of network...

...Title Terms: **MANAGE** ;

...International Patent Class (Additional): **G06F-017/60** ..

...Manual Codes (EPI/S-X): **T01-J05A** ...

... **X12-H01B** ...

... **X12-H03A**

14/3,K/12 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011033507 **Image available**

WPI Acc No: 1997-011431/199701

SRPX Acc No: N97-010012

**Control appts. for electrical load in load management system e.g. for
electrical utility - has communicator for transmitting electrical
load data and load control data to distant data processing centre, with
monitors for evaluating distribution or interruption of energy**

Patent Assignee: SCIENTIFIC-ATLANTA INC (SCAT)

Inventor: DAVIS G A; MASSARA J M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5576700	A	19961119	US 92935837	A	19920826	199701 B

Priority Applications (No Type Date): US 92935837 A 19920826

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5576700	A		20 H04Q-001/00	

**Control appts. for electrical load in load management system e.g. for
electrical utility - ...**

**...has communicator for transmitting electrical load data and load
control data to distant data processing centre, with monitors for
evaluating distribution or interruption of energy**

...Abstract (Basic): An **electrical load management** system includes a
number of an improved load control switching and monitoring appts. Each
of the improved apparatus is located proximate to an **electrical load**
to be **controlled**. A data processing centre remotely located and

separated from the electrical load, causes electrical load reductions in an electrical distribution network and monitors each of the electrical load reductions and energy supplied to the electrical load...

...The appts. comprises a control device for controlling the electrical load in the electrical distribution network in response to command signals transmitted by a command centre, which is remotely located from the electrical load. A first monitoring device generates electrical load data in response to detecting the distribution and interruption of the energy to the electrical load. A second monitoring device generates electrical load control data in response to detecting the control operation. A data collection device collects the electrical load data and the electrical load control data and communicates both to the data processing centre. The latter processes the electrical load data and the load control data to determine the effectiveness of the electrical load management system...

...ADVANTAGE - Helps minimise electrical black - outs or brown-outs...

...Title Terms: **MANAGEMENT** ;

...Manual Codes (EPI/S-X): **X12-H03A**

14/3,K/13 (Item 11 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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010391997 **Image available**

WPI Acc No: 1995-293311/199538

XRPX Acc No: N95-221841

Remote control of electrical load e.g electric water heater, esp. in consumer's premises. - using switching circuit which is responsive to deliberate signal deviations such as brownout intervals or overvoltage spikes to reduce or increase output power to load

Patent Assignee: DOSANI N (DOSA-I); LADHA N (LADH-I)

Inventor: DOSANI N; LADHA N

Number of Countries: 060 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9522190	A1	19950817	WO 95CA77	A	19950215	199538 B
CA 2115717	A	19950816	CA 2115717	A	19940215	199545
AU 9517026	A	19950829	AU 9517026	A	19950215	199548

Priority Applications (No Type Date): CA 2115717 A 19940215

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9522190 A1 E 55 H02J-003/14

Designated States (National): AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ TT UA US UZ VN

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG

AU 9517026 A H02J-003/14 Based on patent WO 9522190

CA 2115717 A H02J-001/00

Remote control of electrical load e.g electric water heater, esp. in consumer's premises...

...responsive to deliberate signal deviations such as brownout intervals or overvoltage spikes to reduce or increase output power to load

...Abstract (Basic): A power modulator (10) has input (12), output (14), microprocessor (18) and a power redn. circuit (14) which reduces power e.g. by 'cycle stealing' or 'phase firing' using TRIACs to withhold a portion of...

...A brownout or **blackout** sensor (24) will respond to voltage drops to turn off the load until a voltage...

...ADVANTAGE - **Electricity** utility can control **electrical** power consumption e.g. during peak demand periods, reducing **power** to selected loads or deactivating them completely according to priority...

...Title Terms: **INCREASE** ;

...Manual Codes (EPI/S-X): **X12-H03A**

14/3,K/14 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010338133 **Image available**

WPI Acc No: 1995-240221/199531

Related WPI Acc No: 1986-131543; 1995-089457; 1995-283335; 2001-181368

XRPX Acc No: N95-187345

Microcomputer based power line protection, monitoring and management system - has one or more switches serially connected to line for enabling, disabling or interrupting current flow through line, and secondary protector across output of switch

Patent Assignee: OMTRONICS CORP (OMTR-N)

Inventor: AHUJA O

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5428494	A	19950627	US 84664472	A	19841024	199531 B
			US 86833360	A	19860225	
			US 89314632	A	19890222	
			US 91684167	A	19910411	
			US 938674	A	19930125	

Priority Applications (No Type Date): US 938674 A 19930125; US 84664472 A 19841024; US 86833360 A 19860225; US 89314632 A 19890222; US 91684167 A 19910411

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5428494	A	20	H02H-003/00		CIP of application US 84664472
					CIP of application US 86833360
					Div ex application US 89314632
					CIP of application US 91684167

Microcomputer based power line protection, monitoring and management system...

...has one or more switches serially connected to line for enabling, disabling or interrupting current flow through line, and secondary protector across output of switch

...Abstract (Basic): The appts. for protecting, monitoring and managing AC/DC **electrical** line or a telecommunication line has at least one switch serially connected to the **electrical** line for enabling, disabling or interrupting the flow of an **electrical** current through the line w.r.t. a control signal. At least one secondary voltage protector...

...signal in response to at least one of the first and second predetermined values to **manage** the switch, so that the switch enables or disables the flow of the electric **current** in the line. The switch includes an electro-mechanical switch, or an AC/DC solid...

...USE/ADVANTAGE - Protects against overvoltage, multi-stage surge, noise and transients, high **energy** lightning pulses etc. Provides primary and secondary protection in safe way, such that system integrity is maintained. Brown-outs and **blackouts** are also prevented...

...Title Terms: **POWER** ;

Manual Codes (EPI/S-X): X12-H03A ...

14/3,K/15 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

009590969

WPI Acc No: 1993-284515/199336

XRPX Acc No: N93-218906

Operating device for power distribution system - has computers to select distribution line with most reserved power for virtual power interchange and to reduce interchanging overload, ensuring quick recovery from black - out NoAbstract

Patent Assignee: TOSHIBA KK (TOKE)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 5199656	A	19930806	JP 92233997	A	19920902	199336 B
JP 3210086	B2	20010917	JP 92233997	A	19920902	200156

Priority Applications (No Type Date): JP 91254054 A 19911002

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 5199656	A		7	H02J-003/00	
JP 3210086	B2		7	H02J-003/00	Previous Publ. patent JP 5199656

Operating device for power distribution system...

...has computers to select distribution line with most reserved power for virtual power interchange and to reduce interchanging overload, ensuring quick recovery from black - out NoAbstract

...Title Terms: POWER ;

International Patent Class (Main): H02J-003/00

...Manual Codes (EPI/S-X): X12-H03A

14/3,K/16 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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009373178 **Image available**

WPI Acc No: 1993-066657/199308

XRPX Acc No: N93-051021

Operation of installation comprising long electrical conductors - receiving and-or collectiing real-time data representative of time derivative of earth magnetic field at several points

Patent Assignee: AT & T BELL LAB (AMTT)

Inventor: KRAUS J S; LANZEROTTI L J; MEDFORD L V

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5184311	A	19930202	US 90540434	A	19900619	199308 B

Priority Applications (No Type Date): US 90540434 A 19900619

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5184311	A		11	G01V-003/08	

Operation of installation comprising long electrical conductors...

...Abstract (Basic): The method of operating an installation that comprises one or more long electrical conductors (exemplarily an electric utility , telecommunciation system or pipeline) involves receiving and/or collecting substantially real time data representative of...

...due to SMD, but also can provide warning of impeding operating

difficulties, such as possible increased power demand by a remote installation...

...protective action in case of solar magnetic disturbances (SMD). Such disturbances in past have caused black - outs and other undesirable conditions...

...Manual Codes (EPI/S-X): X12-H03A

File 15:ABI/Inform(R) 1971-2003/Oct 04
 (c) 2003 ProQuest Info&Learning
 File 9:Business & Industry(R) Jul/1994-2003/Oct 03
 (c) 2003 Resp. DB Svcs.
 File 610:Business Wire 1999-2003/Oct 06
 (c) 2003 Business Wire.
 File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
 File 275:Gale Group Computer DB(TM) 1983-2003/Oct 03
 (c) 2003 The Gale Group
 File 476:Financial Times Fulltext 1982-2003/Oct 06
 (c) 2003 Financial Times Ltd
 File 624:McGraw-Hill Publications 1985-2003/Oct 03
 (c) 2003 McGraw-Hill Co. Inc
 File 636:Gale Group Newsletter DB(TM) 1987-2003/Oct 03
 (c) 2003 The Gale Group
 File 621:Gale Group New Prod.Annou.(R) 1985-2003/Oct 06
 (c) 2003 The Gale Group
 File 613:PR Newswire 1999-2003/Oct 06
 (c) 2003 PR Newswire Association Inc
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
 File 16:Gale Group PROMT(R) 1990-2003/Oct 03
 (c) 2003 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 634:San Jose Mercury Jun 1985-2003/Oct 04
 (c) 2003 San Jose Mercury News
 File 148:Gale Group Trade & Industry DB 1976-2003/Oct 06
 (c)2003 The Gale Group
 File 20:Dialog Global Reporter 1997-2003/Oct 06
 (c) 2003 The Dialog Corp.
 File 995:NewsRoom 2000
 (c) 2003 The Dialog Corporation

Set	Items	Description
S1	114282	(POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITI- ES OR ENERGY) (2W) (NETWORK? ? OR GRID)
S2	304631	FLOW()GATE? ? OR FLOWGATE? ? OR BOTTLENECK? OR BOTTLE()NEC- K? ? OR BLACKOUT? OR BLACK??()OUT? ? OR (INSUFFICIEN? OR INAD- EQUATE OR SCARCE OR DEFICIENT OR ("NOT"()ENOUGH) OR SHORT)() (- SUPPLY OR CAPACITY)
S3	511783	(NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR AR- RANG? OR FACILITAT? OR DISTRIBUT? OR MANAG? OR CONTROLL? OR H- ANDL? OR COORDINAT? OR SYNCHRONI? OR TRANSFER? OR INCREAS?) (2- W) (SUPPLY OR CAPACITY OR QUANTIT???)
S4	24249061	(REAL OR SAME) ()TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR IMMEDIAT? OR INSTANT? OR PROMPT? OR NOW OR TIMELY OR UP(1W)D- ATE OR UP(2W)MINUTE OR SIMULTANEOUS? OR SYNCHRONOUS? OR CONCU- RRENT? OR BEHIND(2W)SCENE? OR ON()FLY
S5	523	S1 AND S2 AND S3 AND S4
S6	0	(S1(5N)S2) AND (S3(5N)S4)
S7	26	S1 AND S2 AND (S3(5N)S4)
S8	14	S7 NOT PD>20000404
S9	11	RD (unique items)

9/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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01991179 49450136

NAS systems offer lifeline to overburdened networks

Williamsen, Bob

Computer Technology Review v20n1 PP: 50-51+ Jan 2000

ISSN: 0278-9647 JRNL CODE: GBAMN

WORD COUNT: 1124

...TEXT: applications, traditional server-based storage solutions are being Pushed two the breaking point. Even beyond **bottlenecks**, network crashes, and data corruption, the need for management and day-to-day troubleshooting is...

...can be up and running in less than 10 minutes. All that is required is **power**, a **network** connection, and a valid IP address to serve and store critical data. A look behind...

...staff intervention.

Ease of installation - Adding a NAS system to an already overworked server can **immediately increase** storage **capacity** --either to all or selected users. Installation can be as simple as attaching **power** and **network** cables, entering the IP address information through the front panel, setting up volumes, shares, and... in freeing IT from non-productive, resource issues. Whether these systems are deployed to relieve **bottlenecks** and capacity issues from file and print services or to support growing Webbased service environments...

9/3,K/2 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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01980603 49076354

Creating a smart power-delivery system

Lewis, Stuart M

Transmission & Distribution World v52n1 PP: 34-41 Jan 2000

ISSN: 1087-0849 JRNL CODE: TMD

WORD COUNT: 2935

...TEXT: the while realizing that we could be contributing to conditions that lead to brownouts and **blackouts**. Widespread outages in Chicago and New York in the summer of 1999 made it only...

... distribution systems that make up our grid must be transformed into an electronically controlled, smart **electricity network** if we are to support our rapidly changing digital economy," says Kurt Yeager, president and...

... these controllers allow transmission lines to be loaded closer to their inherent thermal limits, effectively **increasing** their **capacity**.

FACTS controllers are **now** entering utility service after a 20-year development stage. One recent example is the unified...

... It can force a line to carry power that would naturally flow elsewhere, thereby eliminating **bottlenecks** and diverting power to underused paths. Renz says this is the first time that transmission...Western Area Power Administration are installing the WAMS information network in the western United States **power grid**. It was precipitated by the wide area power outages in the western United States in...

...transient disturbances. Batteries that can respond rapidly have been too expensive for widespread use. The **power grid** of the future needs

storage technology that is fast and inexpensive and that can be... implementation of these solutions is being delayed until restructuring policies encourage greater investment in the **power grid**, or at least do not discourage investment. Until then, the risk of major power interruptions...

9/3,K/3 (Item 3 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01969979 44651965
Transmission by de\$ign
White, Anthony; Stahlkoph, Karl
Electric Perspectives v24n5 PP: 20-29+ Sep/Oct 1999
ISSN: 0364-474X JRNL CODE: ELP
WORD COUNT: 4002

...TEXT: should be incorporated is fundamental and reveals the difficulties of applying simple economic theory to **electricity networks**. Transmission charges could be incorporated in the nodal electricity price-that is, the price at...higher current;

- * deploying flexible alternating current transmission system (known as FACTS) devices (see the sidebar, " **Increasing the Capacity of Existing Transmission Networks**");

- * developing **live** -wire maintenance;

- * negotiating tougher constraint contracts with generators;

- * encouraging the development of load management by...transmission systems are being expected to perform functions for which they were not designed, and **bottlenecks** are becoming evident. Just how close some grids are to their stability limits was illustrated...

9/3,K/4 (Item 4 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01648918 02-99907
Understanding packet-by-packet and flow-based switching for Layer 3 networks
Tuinzing, Reinier
Computer Technology Review v18n5 PP: 12-16 May 1998
ISSN: 0278-9647 JRNL CODE: CTN
WORD COUNT: 2199

...TEXT: to new patterns and network architectures. If not deployed with a balanced network in mind, **bottlenecks** and errors may occur. A balanced network matches nodes to network capacities, and creates a network hierarchy with no **bottlenecks**, thus increasing efficiency. In an ideal configuration, the client, server, and network are operating in...

... in switches and are silicon-based, as opposed to software-based, solutions. They offer the **power** of **network** routers while operating at nearswitching speed. Obviously, multi-gigabit routers can also move large amounts...3 switches across the network, eliminating the possibility that a centralized switch can become a **bottleneck** or point of failure.

Another distinct advantage of packet-by-packet switches for IT managers is ... relatively painless. By inserting these switches at selected points in the network, IT managers can **increase** their network **capacity** incrementally, while at the **same time** enjoying the opportunity for a real-world evaluation of this technology, including interoperability

testing with...

... winning scenario for everyone and to eliminate those sleepless nights filled with dreams of crashes, **bottlenecks**, and, worst of all, those dreaded phone calls from angry users.

Author Affiliation:

Reinier Tuinzing...

9/3,K/5 (Item 5 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01573075 02-24064
Construction projects span the globe
George, Gerry
Transmission & Distribution World v50n1 PP: 38-48 Jan 1998
ISSN: 1087-0849 JRNL CODE: TMD
WORD COUNT: 2723

...TEXT: existing 500-kV ac transmission network between Guangxi and Guangdong provinces in south China has **insufficient capacity** to provide the west to east bulk power transfer needed to **supply** the industrial and commercial development now in progress between Guangzhou and Hong Kong. The China National Technical Import and Export Corporation ...

... to Shanghai providing a 1200 MW interconnection between the east China and central China regional **power networks**.

The specification for the scheme should ensure that optimum performance in terms of system availability...

... Wales system is via Victoria. The load forecast for 1999 indicates that South Australia has **insufficient capacity** to supply its summer peak load. An additional 275-kV transmission line to directly link...

9/3,K/6 (Item 6 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01508812 01-59800
Regional power markets: Roadblock to choice?
Wojick, David E
Public Utilities Fortnightly v135n18 PP: 28-32 Oct 1, 1997
ISSN: 1078-5892 JRNL CODE: PUF
WORD COUNT: 2968

...TEXT: federal generating and marketing agencies.

That's the wholesale market. But the wonderful strangeness of **electricity** makes the **grid** a commodity market like no other. Consider the term "loop flow." It was coined by...

... they are bound by legal preference. Large IOUs have opted to buy power rather than **increase generating capacity**; IOU's purchased power costs now equal fuel costs. The control centers also have worked hard to find cheap power. However...least several unpredictable weeks a year. Otherwise, the nation would run short of power and **black out** because electricity, unlike other commodities, can't be sold on a first-come basis. But...

9/3,K/7 (Item 1 from file: 624)

DIALOG(R)File 624:McGraw-Hill Publications
(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

00806280

How can the flow of power be controlled?

Electrical World October 1996; Pg 28; Vol. 210, No. 10

Journal Code: EW ISSN: 0013-4457

Section Heading: Special Report: Competition deregulation: Is the US rushing into the dark?

Word Count: 802 *Full text available in Formats 5, 7 and 9*

TEXT:

...little or no control flexibility to meet changing network conditions.

All power generators supply reactive power to the network as well as active power. The proportion can be controlled by controlling the excitation. The...

... now in operation around the world on critical transmission lines and where there are power bottlenecks .

A synchronous compensator is the solid-state equivalent of the rotating synchronous condenser. It provides a continuously controllable supply of reactive power and does not need space-consuming banks of capacitors and inductors. The...

9/3,K/8 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

04611010 Supplier Number: 60585270 (USE FORMAT 7 FOR FULLTEXT)

Creating a Smart Power-Delivery System.

Transmission & Distribution World, pNA

Jan, 2000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 2895

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...the while realizing that we could be contributing to conditions that lead to brownouts and blackouts . Widespread outages in Chicago and New York in the summer of 1999 made it only...

... distribution systems that make up our grid must be transformed into an electronically controlled, smart electricity network if we are to support our rapidly changing digital economy," says Kurt Yeager, president and...these controllers allow transmission lines to be loaded closer to their inherent thermal limits, effectively increasing their capacity .

FACTS controllers are now entering utility service after a 20-year development stage. One recent example is the unified...

...It can force a line to carry power that would naturally flow elsewhere, thereby eliminating bottlenecks and diverting power ...Western Area Power Administration are installing the WAMS information network in the western United States power grid . It was precipitated by the wide area power outages in the western United States in...transient disturbances. Batteries that can respond rapidly have been too expensive for widespread use. The power grid of the future needs storage technology that is fast and inexpensive and that can be...implementation of these solutions is being delayed until restructuring policies encourage greater investment in the power grid , or at least do not

9/3,K/9 (Item 2 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

03902206 Supplier Number: 50079038 (USE FORMAT 7 FOR FULLTEXT)
**HEWLETT-PACKARD: Simplex Interconnect verification tools combine with HP's
64-Bit operating system**
M2 Presswire, pN/A
June 16, 1998
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 817

RDATE:150698

-- To give chips **increased** speed and **capacity**
Designers of Multimillion-transistor Chips **Now** Can Extract and
Analyze Much Larger Designs Than Previously Possible
Hewlett-Packard Company and Simplex...

...to keep up with the continuous explosion in design sizes by avoiding the
run-time **bottleneck** of a single processor."

"We are delighted to offer Simplex's advanced software technology on

...integrity and electromigration analysis. Fire & Ice extracts the
interconnect RC parasitics, transistors, discrete components and **power**
grid for multimillion-transistor circuits in a matter of hours, providing
the accuracy of 3-D...

9/3,K/10 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

07979523 SUPPLIER NUMBER: 17222804 (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Freeing Indian steel. (steel industry) (includes related articles) (Indian
Steel: Restructuring) (Industry Overview)**
Narayan, N.
New Steel, v11, n6, p22(6)
June, 1995
DOCUMENT TYPE: Industry Overview LANGUAGE: English RECORD TYPE:
Fulltext; Abstract
WORD COUNT: 3415 LINE COUNT: 00266

... an enormous amount of money in the steel industry both to modernize
plants and to **increase** production **capacity**. Between **now** and 2001,
Sail alone plans to spend \$7 billion to upgrade its technology and expand

...owned and controlled by the state. The infrastructure - transport,
ports, and power - has big problems: **insufficient capacity**, outmoded
methods and technology, and a very poor work culture. This is the biggest
roadblock...tons during this time; India didn't begin its economic
liberalization until mid-1991.

The **insufficient supply** of Indian steel also suppressed per-capita
consumption of steel. Between 1950 and 1990, China...to 2 metric tons.

These plants used energy inefficiently, but they made money by
stealing **power** from the **grid** and by not paying excise and sales taxes
on their ingots. There is no valid...

9/3,K/11 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

07507865 SUPPLIER NUMBER: 15717627 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Demand soars as supplies run short. (MEED Special Report: Power)
Blair, Edmund; Blum, Charlotte; Butter, David; Hindley, Angus; Kemp, Peter;
Marks, Jon; Petrossian, Vahe
MEED Middle East Economic Digest, v38, n33, p27(10)

August 19, 1994

ISSN: 0047-7230

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 7787

LINE COUNT: 00604

TEXT:

...new generating capacity. Due to an explosion of domestic and industrial demand regional utility companies **now** face the need to **increase supply** by rates of up to 15 per cent a year. Power cuts can occur at...

... systems

Israel is the main source of electricity, but many local firms generate their own **power** because the **grid** system is so unreliable and connection charges often far exceed the cost of buying and...of its capacity but, after almost four years of UN sanctions, spare parts are in **short supply** and several of the country's power stations are not functioning.

The government is regularly...sector involvement in the industry, as part of its overall privatisation programme.

LEBANON

RESTORING THE **power network** has been one of the top priorities of Lebanon's reconstruction programme. Installed capacity is...

...are due to be opened by the end of August.

The quick work on the **power network** has already meant that power is available for at least 12 hours a day. By...Authority also invited two sets of bids in early July for the installation of the **power** distribution **grid** as part of the second phase of the great manmade river. The first, worth around...and connect the 90-MW plant, complete with substations and transmission lines to the national **power grid**, over two years, and sell power to the government for 20 years. The total cost...
...29:7:94).

Oil is the preferred fuel for power projects, as gas is in **short supply**. But the new policy is also aimed at exploiting coal deposits, which were boosted by...

...Fontas B has been fully commissioned.

Of more immediate interest to international contractors is the **power** distribution **network**. MEW is expected to invite bids soon for the long-planned phase four of the...

STN

FILE 'CONFSCI, ELCOM, ENERGY, ENTEC' ENTERED AT 15:07:28 ON 06 OCT 2003

L1 2324655 S POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITIES O
L2 2 S S1(2W) (NETWORK# OR GRID)
L3 4504 S FLOW()GATE# OR FLOWGATE# OR BOTTLENECK? OR BOTTLE()NECK# OR B
L4 1864040 S NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR ARRANG
L5 379119 S SUPPLY OR CAPACITY OR QUANTIT###
L6 590192 S (REAL OR SAME) ()TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR I
L7 1622 S L1 AND L3 AND L4
L8 121 S L1 AND L3 AND L4 AND L5 AND L6
L9 7 S (L1(5A)L3) AND (L4(5A)L5) AND L6
L10 4 S (L1(5A)L3) (S) (L4(5A)L6)

STN

L9 ANSWER 1 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN

AN 2002(6):19732 ENERGY

TI Electricity 2002:The annual industry review.

CS Canadian Electricity Association. Montreal, PQ (Canada)

SO Montreal, PQ: Canadian Electricity Association. 2002. 34 p. Published as vol. 73, number 1 of the Canadian Electricity Association Annual Review. Available from the Canadian Electricity Association, 1155 Metcalfe Street, Suite 1120, Montreal, PQ, Canada. H3B 2V6. Telephone: (613) 230-9263. Fax: (613) 230-9326.

DT Miscellaneous; Progress Report; Availability Note

CY Canada

LA English

FA AB

AB The annual review of the Canadian Electricity Association for 2001 reports major changes in the industry, including going from allocating equipment less than 12 months ago to trying to find outlets for excess inventory. While electricity prices were ridiculously high 12 months ago, during the past year they went to levels where generators could not make a justifiable return on their investment. Forecasters went from saying that shortages of power would soon be causing blackouts to forecasting that inefficient plants would be mothballed due to excess supply. Steps taken towards a more open and competitive marketplace progressed to a controversial debate as the California saga unfolded. And, to top it all off, there was the Enron debacle at year end. Despite these ups and downs across the continent the Canadian electrical industry continued to face growing demands for power. To generate, transmit and distribute this power the industry is in need of large amounts of capital and engineering talent in order to build the infrastructure critical to continuing to provide the level of service customers have come to expect. This must be done at the same time as other issues also demand greater attention. Environmental issues, especially climate change and global warming, are more controversial than ever. The role of regulatory authorities is under severe questioning, as many power generators operating in regulated environments find their allowed rates to be significantly below regulated rates in the United States. Ratification and implementation of the Kyoto Protocol poses many difficult challenges for the Canadian electricity industry as well as for Canada as a whole, while infrastructure protection, always a high priority, has assumed an even greater profile following September 11. These and other challenges facing the industry are discussed in a series of articles comprising this issue. Despite the difficulties and obstacles of the past year, the industry's task is clear: it must increase investment and build new capacity to supply the power required by Canadians and by Canadian industry, the latter to maintain its competitive capacity in international markets, upon which the prosperity and well being of all Canadians depend

CC *S20 Fossil-fueled power plants

S24 Power transmission and distribution

CT ELECTRIC POWER INDUSTRY; CANADA; PROGRESS REPORT

BT DEVELOPED COUNTRIES; DOCUMENT TYPES; INDUSTRY; NORTH AMERICA

L9 ANSWER 2 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN

AN 2001(20):89843 ENERGY

TI Submetering: increased interest in a low-cost technology.

AU Millstein, D. (E-MON Corp., Langhorne, PA (United States))

SO Electricity Today (Jun 2001) v. 13(6) p. 10, 12-13.

CODEN: ELTDER ISSN: 0843-7343

DT Journal

CY Canada

LA English

EKD 10/06/2003

STN

FA AB

AB Warning signals reach Canada, indicating that the country suffers from constrained power supply in the Pacific Northwest. This situation is a result of rising electricity costs, increasing power consumption and supply unpredictability. As they undergo restructuring, several Canadian provinces are keeping an eye on the situation in California, where rolling blackouts occur and electricity prices have skyrocketed. Last year alone, electricity prices in Alberta quadrupled. The problems experienced in California are helping Canadians implement cost saving options and avoid the pitfalls of deregulation. In Ontario, electricity prices could rise by at least 20 per cent in two years, as estimated by Energy Probe, a Canadian consumer and environmental advocacy group. As a result, there is a noted increase in interest in submetering technology. This technology is cost-effective, easy to install and has a proven track record for lowering energy bills. Energy usage data is gathered and delivered real-time to facility operators, allowing proactive measures to be implemented when required. Comprehensive energy profiling is achieved through a combination of submetering equipment and software. The data is then utilized for peak shaving, load shedding, aggregation and others to lower energy bills. It displays to the energy manager the amount of energy distributed to the various departments, tenants, or processes within the building or facility. The information can be displayed either on a centralized or remote Windows-based personal computer (PC) operator interface. The system can be read anytime, from anywhere using Automatic Meter Reading (AMR). Some of the features are Demand Side Management (DSM) programs and Energy Management System (EMS) performance analyses. This information allows the manager flexibility on billing and allocation, cost center analysis, energy use verification and demand control and analysis to save money and energy. The submeters are installed after the master meter in a facility. There is no need to power down the load to install. By hooking three current sensors around the electrical feeds being measured allows electricity monitoring. Time and cost to install are approximately 25 per cent of the time and cost necessary for a utility to install a dedicated meter on the same circuit. 3 refs., 4 figs

CC *S29 Energy planning, policy and economy

CT ELECTRIC MEASURING INSTRUMENTS; POWER METERS; ENERGY EXPENSES; ENERGY DEMAND; ENERGY MANAGEMENT SYSTEMS; DATA ANALYSIS

BT CONTROL SYSTEMS; DEMAND; ELECTRIC MEASURING INSTRUMENTS; ELECTRICAL EQUIPMENT; ENERGY SYSTEMS; EQUIPMENT; MEASURING INSTRUMENTS; METERS

L9 ANSWER 3 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN

AN 1993(22):140890 ENERGY

TI Energy and economic development in isolated regions: a case study.

AU Munoz, A.; Maldonado, P. (Chile Univ., Santiago (Chile). Facultad de Ciencias Fisicas y Matematicas)

NR CONF-920923--

SO Renewable energy: technology and the environment. V. 5: Related topics. Proceedings.

Editor(s): Sayigh, A.A.M. (Reading Univ. (United Kingdom). Dept. of Engineering)

World Renewable Energy Co. Ltd., Reading (United Kingdom) (9051107)

Oxford: Pergamon Press. 1992. p. 2639-2643 of 744 p. Conference published in 5 v.

Conference: 2. world renewable energy congress, Reading (United Kingdom), 13-18 Sep 1992

ISBN: 0 08 041278 5

DT Book Article; Conference

CY United Kingdom

STN

LA English

FA AB

AB High production costs and inadequate supply of electricity are severe handicaps to economic development in remote areas. Costs are increased further by the low level and high variability of electric loads. In order to face these problems a simultaneous development of wind diesel energy resources and productive projects with demand management is proposed. This paper illustrates such a case in Southern Chile where present electricity costs are reduced as consumption is increased from 85 to 468 KWh/person/year. A new refrigeration plant increases the storage capacity for the small fishing activity and effectively uses the output of wind energy generators. (author)

CC *290201; F1500

CT DEVELOPING COUNTRIES; DIESEL ENGINES; ECONOMIC DEVELOPMENT; ELECTRIC POWER; REMOTE AREAS; WIND TURBINES

*WIND TURBINES: *DIESEL ENGINES; *DEVELOPING COUNTRIES: *ELECTRIC POWER;

*DEVELOPING COUNTRIES: *WIND TURBINES

BT ENGINES; EQUIPMENT; HEAT ENGINES; INTERNAL COMBUSTION ENGINES; MACHINERY; POWER; TURBINES; TURBOMACHINERY

ET V

L9 ANSWER 4 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN

AN 1987(10):71935 ENERGY

TI Constraints on nuclear power development in the United States.

AU Brandfon, W.W. (General Analytical Div., Sargent and Lundy, Engineers, Chicago) [United States]

SO Global energy assessment and outlook.

Kursunoglu, B.N.; Perlmutter, A.; Scott, L.

New York, NY: Harwood Academic Pub. 1984. pp. 129-130

ISBN: 3-7186-0224-5

DT Book Article

CY United States

LA English

AB The U.S. nuclear option appears, at this time, to be disappearing. Determinants of energy supply seem to be changing from engineering and economic factors to other considerations. Regulatory and financial constraints now appear to be dominating the guidelines for electrical energy expansion. American electric utilities, for the most part, have not been able to obtain sufficient revenues to cover their costs of production. What price increases that they are being allowed to charge their customers come too late to keep up with inflation. They require increasing quantities of outside funding in the form of debt and equity capital. This they can only obtain at record high rates, if at all. Most utilities are not even earning what their regulators have determined are fair returns. Financial problems and regulatory tangles severely affect nuclear power, despite its proven technology and environmental and economic benefits. If the United States loses the nuclear alternative, the economic consequences of limiting fuels for electric base load generation to coal only will be severe; analogous to a monopoly situation in fuel supply. It is doubtful, despite the huge resources of coal, that the coal industry can satisfy even a reduced future demand. The question then becomes whether the technological leader of the world may in the future be faced with blackouts and rationing of electricity.

CC *290600; 290500; 293000; 292000; F1400

CT *NUCLEAR INDUSTRY: *CONSTRAINTS; *NUCLEAR POWER: *ENERGY SOURCE DEVELOPMENT; DEMAND; ECONOMICS; ENERGY MANAGEMENT; ENERGY POLICY; ENERGY SUPPLIES; FINANCING; FORECASTING; REGULATIONS; SAFETY; SUPPLY DISRUPTION

BT GOVERNMENT POLICIES; INDUSTRY; MANAGEMENT; POWER

STN

L9 ANSWER 5 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 1982(17):126141 ENERGY
TI Energy situation of India.
AU Ritapal, K. [Germany, Federal Republic of]
SO Glueckauf (23 Jul 1981) v. 117(14) p. 900-904, 403-406
CODEN: GLUEAJ ISSN: 0340-7896
DT Journal
CY Germany, Federal Republic of
LA German; English
AB India, which as a surface area of some 3.28 m km2 and a population of around 650 million people, is still predominantly an agrarian country. Since development plans were introduced in 1950/51, great progress has been made in industrialization. However, there are still bottle necks in the transport, energy production and energy distribution sectors. India's development plans provide for economic growth of 4.7 to 5.5% per annum (from 1983) with different growth rates in the various sectors (agriculture: approximately 4%, mining and industry: 7%, energy: 11%, building: 10%, and transport: 6%). Developing countries have to cope at the same time with population growth, claims for a higher standard of living and the increasingly difficult problem of energy supply. Today, it is generally recognized that the energy situation in these countries cannot be treated separately from the energy supply of the industrialized nations. According to information collected by the World Bank, India's energy consumption - in relation to its gross national product - is the greatest of any of the developing countries.

CC *290000

CT *INDIA: *ENERGY SUPPLIES; COMPARATIVE EVALUATIONS; DEVELOPING COUNTRIES; ENERGY DEMAND; ENERGY SOURCES; FORECASTING; IMPORTS; PETROLEUM; PRODUCTION; RESERVES; RURAL AREAS

BT ASIA; DEMAND; DEVELOPING COUNTRIES; ENERGY SOURCES; FOSSIL FUELS; FUELS; RESOURCES

L9 ANSWER 6 OF 7 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 1982(15):109327 ENERGY
TI Supply-side approach to energy policy.
AU Bejan, M. (Univ. of California, Berkeley); Bejan, A. [United States]
SO Energy Policy (Jun 1982) v. 10(2) p. 153-157
CODEN: ENPYAC

DT Journal

CY United Kingdom

LA English

DN EPA-08:003662

AB Existing energy-policy proposals are approached from a demand-side perspective to solve the immediate problem of meeting existing demands defined by existing technologies. However, a constructive forward-looking policy requires a supply-side perspective. The purpose of energy policy is ultimately the efficient allocation of the scarce supply of available energy or exergy. The authors outline a proposal for efficient energy management. This supply-side orientation is based upon basic thermodynamic principles, thus offering a foundation for formation of consistent criteria for policy-oriented decision making. 4 figures.

CC *293000; 292000

CT *ENERGY SUPPLIES; *ENERGY POLICY; *ENERGY POLICY; *ENERGY SUPPLIES; ENERGY DEMAND; ENERGY MANAGEMENT; THERMODYNAMIC PROPERTIES; USA
BT DEMAND; GOVERNMENT POLICIES; MANAGEMENT; NORTH AMERICA; PHYSICAL PROPERTIES

L9 ANSWER 7 OF 7 ENTEC (C) 2003 FIZ Technik on STN
AN 2001:0028668 ENTEC

EKD 10/06/2003

STN

TI Improved system performance by integration of adjustable speed hydro (ASH) machines.

AU Sporild, R.; Gjerde, J.O.; Gjengedal, T.

CS ABB Corp. Res., Billingstad (NO)

SO PowerCon 2000. 2000 International Conference on Power System Technology. Proceedings (Cat. No.00EX409), 4-7 Dec. 2000, Perth, WA, Australia. Piscataway: IEEE Operations Center (www.ieee.org). 2000. p. 415-420. v. 1.

Konferenz: PowerCon 2000: 4. international conference on power system technology, Perth (AU), 4-7 Dec 2000

ISBN: 0-7803-6338-8

DT Kapitel der Monographie; Konferenz

LA Englisch

FA AB

IP FIZ Technik

AB The main purpose of this paper is to show how the adjustable speed hydro (ASH) machine behaves with respect to transient and dynamic conditions in power systems. The ASH machine gives a contribution to increased efficiency in the penstock/turbine system as well as an improved flexibility with respect to the electrical system. By means of its quick response to network events, the ASH machine is able to obtain an increased stability margin and thereby a more safe operation of the power system. With proper location and parametrisation of power system stabilisers (PSS), the ASH machine can make considerable support to damping of large scale power oscillations in transmission networks. On the other hand, this represents new opportunities for the power producer as well as for the system operator in utilising the transmission network even better. The paper has shown that transmission lines appearing as bottlenecks with respect to power demand may increase their transfer capacity as ASH machines are introduced in the network. In turn, this may lead to a postponement of high investment costs for new overhead lines. Furthermore, the paper has given a quantification of how much the power export out of an example region can be increased due to introduction of ASH machines

CC *S24 Power transmission and distribution

S99 General and miscellaneous

ST DAEMPfung; WASSERTURBINE; WASSERKRAFTGENERATOR; SYNCHRONGENERATOR; ELEKTRISCHES NETZ (ENERGIENETZ); REGELGETRIEBE; STABILITAETSGRENZE; FREILEITUNG; KOSTEN-NUTZEN-ANALYSE; ENERGIENETZSTABILITAET; DYNAMISCHE BEDINGUNG; EINSCHWINGZUSTAND; ENERGIENETZSTABILISIERUNGSEINRICHTUNG

EKD

10/06/2003

STN

L10 ANSWER 1 OF 4 ELCOM COPYRIGHT 2003 CSA on STN
AN 1999:2066 ELCOM
TI Adaptive speed control of a general-purpose processor based on activities
AU Furuichi, Sanehiro; Aihara, Toru
CS Tokyo Research Lab, Yamato-shi, Jpn
SO IEICE TRANS ELECTRON, (19980900) vol. E81-C, no. 9, pp. 1481-1483.
ISSN: 0916-8524.

DT Journal

FS E

LA English

AB This paper proposes a new method for **dynamically controlling** the clock speed of a processor in order to reduce power consumption without decreasing system performance. It automatically tunes the processor's speed by monitoring its activities and avoiding useless work so as not to exhaust the battery **energy**. Experiments with performance **bottlenecks** caused by disk activities show that the proposed method is very effective in comparison with the traditional one, in which the processor's speed is fixed.

CC 722. Digital Computers and Systems; 731. Specific Variables Control; 713. Pulse Circuits

UT Speed control; Timing circuits; General-purpose processors

L10 ANSWER 2 OF 4 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN

AN 1994(17):115348 ENERGY

TI An integrated methodology for power system restoration planning.

AU Huang Jinan

CS McGill Univ., Montreal, PQ (Canada). Dept. of Electrical Engineering (4040100)

SO Thesis (Ph.D.). Montreal, PQ: McGill Univ. Aug 1992. 260 p. MF Micromedia Ltd., 240 Catherine Street, Suite 305, Ottawa, Ontario, Canada K2P 2G8 \$15 CAN.

ISBN: 0-315-87715-4

DT Book; Dissertation

CY Canada

LA English

FA AB

AB A study is presented of power system restoration planning. An integrated methodology is proposed for restoration planning which incorporates heuristics, algorithms, a friendly graphical user interface and databases. Heuristics provide rules for dividing the power system to be restored into subsystems to be restored independently, for selecting suitable scenarios from the scenario library, and for creating appropriate scenarios when they do not exist in the library. The optimization algorithm systematically ensures the feasibility of a defined restoration scenario as well as giving an optimum solution for all controllable variables in the sense of minimizing the number of control variable adjustments from stage to stage. The optimization algorithm reduces the duration of the restoration procedure which is a critical consideration during power blackouts. The interactive interface facilitates the creation of restoration plans directly on the dynamic diagram of the network as well as displaying simulation and optimization results. Databases contain the graphical representation of power systems and their numerical data. 106 refs., 67 figs., 32 tabs.

CC *240100

CT COMPUTER CODES; EXPERT SYSTEMS; OPERATION; OUTAGES; PLANNING; POWER SYSTEMS

*POWER SYSTEMS; *EXPERT SYSTEMS; *POWER SYSTEMS; *OUTAGES

BT ENERGY SYSTEMS

STN

L10 ANSWER 3 OF 4 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 1991(13):82092 ENERGY
TI Survey of Canadian electrical inspection authorities re service entrance upgrading practices.
AU Bouchard, J.E
CS Neill and Gunter Ltd., Dartmouth, NS (Canada) (9901299)
NR CEA--444UATS; CE--03589
SO Jun 1986. 24 p. Canadian Electrical Association, One Westmount Square, Suite 500, Montreal, PQ, CAN H3Z 2P9. Prices: \$75.00 NON-MEMBERS; MEMBERS: PRICES UPON REQUEST, FUNDS CAN.
DT Report; Availability Note
CY Canada
LA English
FA AB
AB A typical residential electrical service entrance represents a bottleneck to increased loads such as add-on electric heating. Traditional methods of upgrading the service usually meant replacing the entire service entrance system, which is very costly. A study was undertaken to identify possible economical upgrading methods. The study included a survey of Canadian utilities and inspection authorities to examine their opinions on the proposed upgrading methods. Results of the survey are presented on questions regarding recommended maximum loads, adding additional cables in existing conduits, retrofitting of reinforcing devices to power meters, use of double-lugged meter mounting devices, power meter location, use of fuse clip clamps, wiring of panelboards, use of combination panelboards, use of live splitters, and use of load management panelboards. The acceptability of the suggested upgrading methods was very low among inspection authorities, averaging 26.5% in favor. The acceptance among utilities was 54.5%. 4 figs.
CC *240201
CT CANADA; MODIFICATIONS; POWER DISTRIBUTION SYSTEMS; RESIDENTIAL SECTOR; SURVEYS
*RESIDENTIAL SECTOR: *POWER DISTRIBUTION SYSTEMS
BT NORTH AMERICA

L10 ANSWER 4 OF 4 ENERGY COPYRIGHT 2003 USDOE/IEA-ETDE on STN
AN 1982(24):178231 ENERGY
TI Recovering waste heat from operation of small industrial diesel engines.
AU Kauffmann, W.M. [United States]
SO Plant Eng. (15 Apr 1982) v. 36(8) p. 77-79
CODEN: PLENAV ISSN: 0032-082X
DT Journal
CY United States
LA English
AB Key elements in rapid advance of diesel engine technology are the vast improvement in fuel injection equipment and the use of turbochargers for small engines. Speeds of diesel engines have also increased and now range from 2000 to 3600 rpm. Several factors should be considered in the selection and application of diesel engines: combustion chamber design, fuel injection equipment, engine and cylinder construction, lubrication system, turbocharger, aftercooler (when used), torque/speed and fuel consumption curves, heat recovery, and operating costs. Operating costs of small industrial diesel engines must be compared with purchased power costs. The availability of onsite power also eliminates concern for blackouts or energy curtailment. The recovery of steam may be an important addition to the total available energy and affects actual operating cost.
CC *320304
CT *INDUSTRIAL PLANTS: *DIESEL ENGINES; *DIESEL ENGINES: *HEAT RECOVERY;

EKD 10/06/2003

STN

COMBUSTION CHAMBERS; FUEL INJECTION SYSTEMS; OPERATING COST; DESIGN

File 348:EUROPEAN PATENTS 1978-2003/Sep W04
(c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20031002,UT=20030925
(c) 2003 WIPO/Univentio

Set	Items	Description
S1	726015	POWER OR ELECTRICITY OR ELECTRICAL? OR UTILITY OR UTILITIES OR ENERGY
S2	16851	FLOW()GATE? ? OR FLOWGATE? ? OR BOTTLENECK? OR BOTTLE()NECK? ? OR BLACKOUT? OR BLACK??()OUT? ? OR SHORTAGE? ? OR (INSUFFICIEN? OR INADEQUATE OR SCARCE OR DEFICIENT OR ("NOT"()ENOUGH) OR SHORT) () (SUPPLY OR CAPACITY)
S3	1558930	NEGOTIAT? OR CONTRACTING OR CONTRACTED OR OUTSOURC? OR ARRANG? OR FACILITAT? OR DISTRIBUT? OR MANAG? OR CONTROLL? OR HANDL? OR COORDINAT? OR SYNCHRONI? OR TRANSFER? OR INCREAS?
S4	1016327	(REAL OR SAME) ()TIME OR INTERACTIVE? OR DYNAMIC? OR LIVE OR IMMEDIAT? OR INSTANT? OR PROMPT? OR NOW OR TIMELY OR UP(1W)DATE OR UP(2W)MINUTE OR SIMULTANEOUS? OR SYNCHRONOUS? OR CONCURRENT? OR BEHIND(2W)SCENE? OR ON()FLY
S5	195	(S1(5N)S2) AND (S3(5N)S4)
S6	7	(S1(5N)S2) (20N) (S3(5N)S4)
S7	9	S5 AND IC=(H02J-000/00 OR H02J-003/00 OR G06F-017/60)
S8	54577	S3(2W) (SUPPLY OR CAPACITY OR QUANTIT???)
S9	1	(S4(5N)S8) (S) (S1(5N)S2)
S10	28	(S4(5N)S8) (S) (S1 AND S2)
S11	27	S10 NOT (S6 OR S7 OR S9)

6/TI,PY,AZ/1 (Item 1 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01117960

Auxiliary drive system for power-driven apparatus
Hilfsantriebssystem fur automatisches Gerat
Systeme d'entrainement auxiliaire pour un appareil automatique
PATENT (CC, No, Kind, Date): EP 978755 A1 000209 (Basic)

6/TI,PY,AZ/2 (Item 2 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00646718

Fuel composition
Kraftstoffzusammensetzung
Composition de combustible
PATENT (CC, No, Kind, Date): EP 624639 A1 941117 (Basic)
EP 624639 B1 980812

6/TI,PY,AZ/3 (Item 3 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00646707

Compositions useful as additives for lubricants and liquid fuels.
Als Zusatze fur Schmiermittel und flussige Kraftstoffe nutzliche
Zusammensetzungen.
Compositions utiles comme additifs pour lubrifiants et liquides
combustibles.
PATENT (CC, No, Kind, Date): EP 624638 A1 941117 (Basic)

6/TI,PY,AZ/4 (Item 4 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00556825

FUEL COMPOSITION.
BRENNSTOFFZUSAMMENSETZUNG.
COMPOSITION DE CARBURANT.
PATENT (CC, No, Kind, Date): EP 525157 A1 930203 (Basic)
EP 525157 B1 950301
WO 9214805 920903

6/TI,PY,AZ/5 (Item 5 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00309567

A digital telephone switching system having a message switch with address
translation.
Digitales Fernsprechvermittlungssystem mit einem Nachrichtenverteiler mit
Adressenumsetzung.
Systeme de commutation telefonique numerique avec un distributeur de
messages a transmission d'adresses.
PATENT (CC, No, Kind, Date): EP 282197 A2 880914 (Basic)
EP 282197 A3 900530
EP 282197 B1 930414

6/TI,PY,AZ/6 (Item 6 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00300347

Asynchronous multiphase switching gear.
Asynchrones mehrphasiges Schaltgerat.

Appareil de commutation polyphase asynchrone.

PATENT (CC, No, Kind, Date): EP 313926 A2 890503 (Basic)

EP 313926 A3 900530

EP 313926 B1 930804

6/TI,PY,AZ/7 (Item 1 from file: 349)

DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00217580

FUEL COMPOSITION

COMPOSITION DE CARBURANT

Publication Year: 1992

6/3,K/6 (Item 6 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

00300347

Asynchronous multiphase switching gear.
Asynchrone mehrphasiges Schaltgerät.
Appareil de commutation polyphase asynchrone.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Ross, John Michael, 8912 Karver Lane, Annandale Virginia 22003, (US)
Woodworth, George Kelsey, Post Office Box 1220, Manassas Virginia 22110,
(US)

LEGAL REPRESENTATIVE:

Monig, Anton, Dipl.-Ing. (8591), IBM Deutschland Informationssysteme
GmbH, Patentwesen und Urheberrecht, D-70548 Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 313926 A2 890503 (Basic)
EP 313926 A3 900530
EP 313926 B1 930804

APPLICATION (CC, No, Date): EP 88116981 881013;

PRIORITY (CC, No, Date): US 113926 871027

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: H02J-003/38; H02J-009/06;

ABSTRACT WORD COUNT: 139

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	1706
CLAIMS B	(German)	EPBBF1	835
CLAIMS B	(French)	EPBBF1	1023
SPEC B	(English)	EPBBF1	7612
Total word count - document A			0
Total word count - document B			11176
Total word count - documents A + B			11176

...SPECIFICATION cannot be tolerated.

The AMSG approach could reduce distribution outages caused by equipment failures for power utilities. Blackouts that have been caused by the loss of power could be handled in a very different manner that would allow alternative paths for routing power to an affected area. With

7/TI,PY,AZ/1 (Item 1 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01470120
POWER SUPPLY/DEMAND CONTROL SYSTEM
LEISTUNGSVERSORGUNGS-BEDARFSREGELUNGSSYSTEM
SYSTEME DE REGULATION DE DEMANDE DE COURANT ET D'ALIMENTATION EN COURANT
PATENT (CC, No, Kind, Date): EP 1255340 A1 021106 (Basic)
WO 2002029952 020411

7/TI,PY,AZ/2 (Item 2 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01458548
Data warehouse model and methodology
Modell und Methodologie fur ein Datenlagerhaus
Modele de depot de donnees et methodologie
PATENT (CC, No, Kind, Date): EP 1248216 A1 021009 (Basic)

7/TI,PY,AZ/3 (Item 3 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01371168
Power amount control method and apparatus
Leistungsverbrauchsteuerungsverfahren und -vorrichtung
Procede et appareil de regulation de la quantite de puissance
PATENT (CC, No, Kind, Date): EP 1168563 A2 020102 (Basic)

7/TI,PY,AZ/4 (Item 4 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01071115
AUTOMATED SURVEY KIOSK and system
Automatisierte Marktforschungskiosk und -system
Systeme et borne informatique de sondage
PATENT (CC, No, Kind, Date): EP 1046119 A2 001025 (Basic)
EP 1046119 B1 030521
WO 99035600 990715

7/TI,PY,AZ/5 (Item 1 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00911739
METHOD AND APPARATUS FOR TRADING AND MANAGING FUNGIBLE, EPHEMERAL
COMMODITIES INCLUDING ELECTRICAL POWER
PROCEDE ET APPAREIL EXPLOITANT UN ORDINATEUR CLIENT EN INTERACTION AVEC UN
SYSTEME MOTEUR POUR L'ECHANGE ET LA GESTION DE BIENS FONGIBLES ET
EPHEMERES, DONT L'ENERGIE ELECTRIQUE
Publication Year: 2002

7/TI,PY,AZ/6 (Item 2 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00858344
METHOD AND SYSTEMS SUPPORTING TRADING OF FUNGIBLE EPHEMERAL COMMODITIES AND
FUNGIBLE NON-EPHEMERAL COMMODITIES INCORPORATING TRANSMISSION
CONTRACTING
PROCEDE ET SYSTEMES D'ASSISTANCE A LA NEGOCIATION DE BIENS FONGIBLES
EPHEMERES ET NON EPHEMERES AVEC CONCLUSION DE CONTRATS PAR
TELECOMMUNICATIONS
Publication Year: 2001

7/TI,PY,AZ/7 (Item 3 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00858335

SYSTEM FOR TRADING, SCHEDULING AND SETTLING TRANSACTIONS INVOLVING
FUNGIBLE, EPHEMERAL COMMODITIES INCLUDING POWER AND METHOD THEREFOR
PROCEDE ET APPAREIL DESTINE A UN SYSTEME DE MOTEUR SUPPORTANT DES
TRANSACTIONS, DES ORDONNANCEMENTS ET DES REGLEMENTS CONCERNANT DES
MARCHANDISES FONGIBLES ET EPHEMERES, DONT L'ENERGIE ELECTRIQUE
Publication Year: 2001

7/TI,PY,AZ/8 (Item 4 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00807674

METHOD AND APPARATUS OF MANAGING EPHEMERAL, FUNGIBLE COMMODITIES BASED
UPON REAL - TIME FORWARD PRICES
PROCEDE ET APPAREIL DE GESTION DE BIENS FONGIBLES, EPHEMERES FONDES SUR LES
PRIX A TERME EN TEMPS REEL
Publication Year: 2001

7/TI,PY,AZ/9 (Item 5 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00504248

AUTOMATED SURVEY KIOSK
POSTE AUTOMATISE DE SONDAGE
Publication Year: 1999

9/3,K/1 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

00343275

Circuit for controlling the power supply of an electrical load, having a device for detecting a short-circuit of the load.

Steuerschaltung für die Energieversorgung einer elektrischen Last mit einer Erfassungsanordnung eines Kurzschlusses der Last.

Circuit de commande de l'alimentation d'une charge électrique, à dispositif de détection d'un court-circuit de la charge.

PATENT ASSIGNEE:

SIEMENS AKTIENGESELLSCHAFT, (200520), Wittelsbacherplatz 2, W-8000 München 2, (DE), (applicant designated states: DE;ES;GB;IT;NL;SE)

INVENTOR:

Baylac, Bruno Yves Henri, 197 rue des Fontaines, F-31300 Toulouse, (FR)

Castel, Michel, 4 place des Mesanges, F-31140 Aucamville, (FR)

PATENT (CC, No, Kind, Date): EP 343536 A1 891129 (Basic)

EP 343536 B1 930317

APPLICATION (CC, No, Date): EP 89109088 890519;

PRIORITY (CC, No, Date): FR 887005 880526 — — —

DESIGNATED STATES: DE; ES; GB; IT; NL; SE

INTERNATIONAL PATENT CLASS: H02H-003/087; H02H-001/04;

ABSTRACT WORD COUNT: 99

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	575
CLAIMS B	(German)	EPBBF1	519
CLAIMS B	(French)	EPBBF1	580
SPEC B	(English)	EPBBF1	3547

Total word count - document A 0

Total word count - document B 5221

Total word count - documents A + B 5221

...SPECIFICATION example with reference to the accompanying drawing in which:

- Figure 1 is a diagrammatic representation of a circuit for controlling the power supply of an electrical load, provided with a device for detecting a short-circuit of the...

...the prior art,

- Figure 2 is a diagrammatic representation of a circuit for controlling the power supply of an electrical load, provided with a device for detecting a short-circuit of the load according to...

11/TI,PY,AZ/1 (Item 1 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01503672

Raw fuel vaporizing apparatus, method of vaporizing raw fuel, and fuel cell system equipped with raw fuel vaporizing apparatus

Apparat zur Verdampfung von Rohbrennstoff, Verfahren zur Verdampfung von Rohbrennstoff und Brennstoffzellensystem ausgerüstet mit einem solchen Apparat zur Verdampfung von Rohbrennstoff

Dispositif pour vaporiser du combustible brut, methode pour vaporiser du combustible brut et systeme de pile a combustible pourvu d'un tel dispositif pour vaporiser du combustible brut

PATENT (CC, No, Kind, Date): EP 1258935 A2 021120 (Basic)

11/TI,PY,AZ/2 (Item 2 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01321703

Method for controlling and synchronizing power supply in a system of electronic devices

Verfahren zur Steuerung und Synchronisierung der Stromversorgung in einem System elektronischen Geraten

Procede de commande et synchronisation du circuit d'alimentation pour appareils electroniques

PATENT (CC, No, Kind, Date): EP 1128561 A2 010829 (Basic)

11/TI,PY,AZ/3 (Item 3 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01311109

Time division duplex cellular communications system with dynamic slot allocation and reduced interference

Duplex-Zeitverschachtelungs-Kommunikationssystem mit dynamischer Zeitschlitz zuweisung und verminderter Störung

Systeme de communication mobile avec multiplexage temporel duplex a allocation dynamique de canaux temporels et a interference reduite

PATENT (CC, No, Kind, Date): EP 1122895 A1 010808 (Basic)

11/TI,PY,AZ/4 (Item 4 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

01198210

Method for the simultaneous modernization of a plant for ammonia production and a plant for urea production

Verfahren zur gleichzeitigen Modernisierung einer Ammoniakherstellungsanlage und einer Harnstoffherstellungsanlage

Procede de modernisation simultanee d'une installation de production d'ammoniac et d'une installation de production d'uree

PATENT (CC, No, Kind, Date): EP 1041038 A1 001004 (Basic)

EP 1041038 B1 030604

11/TI,PY,AZ/5 (Item 5 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00879276

Suspend induced by AC power disturbance

Durch eine Wechselstörung verursachter Wartezustand

Mise en attente provoquee par une perturbation de l'alimentation en courant alternatif

PATENT (CC, No, Kind, Date): EP 805386 A1 971105 (Basic)

11/TI,PY,AZ/6 (Item 6 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00806019

Method and apparatus for suspend/resume operation in a computer
Verfahren und Vorrichtung für Halt-/Fortsetzungsfunktion in einem Rechner
Procédé et dispositif pour fonction d'arrêt/reprise dans un ordinateur
PATENT (CC, No, Kind, Date): EP 749063 A2 961218 (Basic)
EP 749063 A3 990113

11/TI,PY,AZ/7 (Item 7 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00765196

CONTROL OF TRANSITIONS BETWEEN POWER MANAGEMENT STATES IN A COMPUTER SYSTEM
STEUERUNG DER ÜBERGÄNGE DER LEISTUNGSVERWALTUNGSZUSTÄNDE IN EINEM
RECHNERSYSTEM
COMMANDE DE TRANSITIONS ENTRE DES ÉTATS DE GESTION DE PUISSANCE DANS UN
SYSTÈME INFORMATIQUE
PATENT (CC, No, Kind, Date): EP 780001 A1 970625 (Basic)
EP 780001 B1 991229
WO 9607964 960314

11/TI,PY,AZ/8 (Item 8 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00765195

PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT
DURCHFÜHRUNG VON SYSTEMAUFGABEN BEI STROMABSCHALTUNG DURCH VERWENDUNG VON
SYSTEMVERWALTUNGSUNTERBRECHUNG
RÉALISATION DE TÂCHES DE SYSTÈME AVANT LA MISE HORS TENSION À L'AIDE DE
L'INTERRUPTION DE GESTION DE SYSTÈME
PATENT (CC, No, Kind, Date): EP 780000 A1 970625 (Basic)
EP 780000 B1 991229
WO 9607963 960314

11/TI,PY,AZ/9 (Item 9 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00742571

A power management system for providing suspend/resume capability in a
computer system
Ein Leistungssteuerprozessorsystem, um Halt/Wiederaufnahmefunktion in einem
Rechnersystem zur Verfügung zu stellen
Système de gestion d'alimentation fournissant une possibilité
d'arrêt/reprise
PATENT (CC, No, Kind, Date): EP 701192 A1 960313 (Basic)
EP 701192 B1 001122

11/TI,PY,AZ/10 (Item 10 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00742570

A computer system with a ring detection facility to initiate a system
wake-up procedure
Rechnersystem mit Klingelfeststelleinrichtung, um Systemaufwachverfahren
einzuleiten
Système d'ordinateur avec moyen de détection de sonnerie pour démarrer une
procédure de réveil du système
PATENT (CC, No, Kind, Date): EP 701195 A1 960313 (Basic)
EP 701195 B1 011031

11/TI,PY,AZ/11 (Item 11 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00742569

Power management processor for computer systems having suspend/resume capability

Leistungssteuerprozessor für Rechnersystem mit Halt/Wiederaufnahmefunktionsfähigkeit

Processeur de gestion d'alimentation pour systemes d'ordinateur ayant des possibilites d'arret/reprise

PATENT (CC, No, Kind, Date): EP 701194 A1 960313 (Basic)

EP 701194 B1 011024

11/TI,PY,AZ/12 (Item 12 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00469739

High efficiency centrifugal decorticator of oil grains.

Hocheffiziente Zentrifugalschälmaschine für Olsaaten.

Decortiqueuse centrifuge à haut rendement.

PATENT (CC, No, Kind, Date): EP 476594 A1 920325 (Basic)

11/TI,PY,AZ/13 (Item 13 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00319745

Intermediate potential generation circuit for generating a potential intermediate between a power source potential and ground potential.

Schaltung zur Erzeugung einer Zwischenspannung zwischen einer Versorgungsspannung und einer Erdspannung.

Circuit generateur d'un potentiel intermediaire entre un potentiel d'alimentation et un potentiel de masse.

PATENT (CC, No, Kind, Date): EP 321226 A1 890621 (Basic)

EP 321226 B1 930616

11/TI,PY,AZ/14 (Item 14 from file: 348)
DIALOG(R)File 348:(c) 2003 European Patent Office. All rts. reserv.

00292080

Augmented air supply for fuel cells power plant during transient load increases.

Erhöhte Luftzufuhr für eine Brennstoffzellenkraftanlage während vorübergehender Belastungserhöhungen.

Augmentation de l'alimentation en air des generateurs de piles lors des augmentations de charges transitoires.

PATENT (CC, No, Kind, Date): EP 293007 A2 881130 (Basic)

EP 293007 A3 890816

EP 293007 B1 930127

11/TI,PY,AZ/15 (Item 1 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

01028971

WIRELESS CELLULAR NETWORK ARCHITECTURE

ARCHITECTURE DE RESEAU CELLULAIRE SANS FIL

Publication Year: 2003

11/TI,PY,AZ/16 (Item 2 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00995742

SYSTEM AND METHOD FOR PERFORMING POWER MANAGEMENT ON A DISTRIBUTED SYSTEM
SYSTEME ET PROCEDE POUR OPERER UNE GESTION D'ENERGIE SUR UN SYSTEME
DISTRIBUE

Publication Year: 2003

11/TI,PY,AZ/17 (Item 3 from file: 349)

DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00967822

LOW-POWER, DIFFERENTIAL OPTICAL RECEIVER IN SILICON ON INSULATOR
RECEPTEUR OPTIQUE DIFFERENTIEL DE FAIBLE PUISSANCE SILICIUM SUR ISOLANT

Publication Year: 2002

11/TI,PY,AZ/18 (Item 4 from file: 349)

DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00952047

IN SITU RECOVERY FROM A OIL SHALE FORMATION
RECUPERATION D'HUILE IN SITU A PARTIR D'UNE FORMATION DE SCHISTE BITUMINEUX

Publication Year: 2002

11/TI,PY,AZ/19 (Item 5 from file: 349)

DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00908356

PRIORITY CAR SORTING IN RAILROAD CLASSIFICATION YARDS USING A CONTINUOUS
MULTI-STAGE METHOD

TRIAGE DE VOITURES PRIORITAIRES DANS LES GARES A FAISCEAU DE TRIAGE AU
MOYEN D'UN PROCESSUS MULTI-ETAPES CONTINU

Publication Year: 2002

11/TI,PY,AZ/20 (Item 6 from file: 349)

DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00899532

METHODS AND APPARATUS FOR FORMULATION, INITIAL PUBLIC OR PRIVATE OFFERING,
AND SECONDARY MARKET TRADING OF RISK MANAGEMENT CONTRACTS

PROCEDES ET SYSTEME POUR LA FORMULATION DE PREMIERES OFFRES PUBLIQUES OU
PRIVEES ET LA NEGOCIATION DE MARCHE SECONDAIRE POUR DES CONTRATS DE
GESTION DE RISQUES

Publication Year: 2002

11/TI,PY,AZ/21 (Item 7 from file: 349)

DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00840236

CONCURRENT MULTI-BAND LOW NOISE AMPLIFIER ARCHITECTURE
ARCHITECTURE D'AMPLIFICATEUR A FAIBLE BRUIT MULTIBANDE CONCURRENT

Publication Year: 2001

11/TI,PY,AZ/22 (Item 8 from file: 349)

DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00784140

A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A GLOBALLY ADDRESSABLE
INTERFACE IN A COMMUNICATION SERVICES PATTERNS ENVIRONMENT

SYSTEME, PROCEDE ET ARTICLE DE FABRICATION S'APPLIQUANT DANS UN
ENVIRONNEMENT DE STRUCTURE DE SERVICES DE COMMUNICATIONS VIA UNE
INTERFACE ADRESSABLE GLOBALEMENT

Publication Year: 2001

11/TI,PY,AZ/23 (Item 9 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00749027
UNIVERSAL SYNCHRONOUS NETWORK SYSTEM FOR INTERNET PROCESSOR AND WEB
OPERATING ENVIRONMENT
SYSTEME DE RESEAU SYNCHRONE UNIVERSEL POUR PROCESSEUR INTERNET ET
ENVIRONNEMENT DE FONCTIONNEMENT INTERNET
Publication Year: 2000

11/TI,PY,AZ/24 (Item 10 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00736340
WDM TRANSMITTER
EMETTEUR MRL
Publication Year: 2000

11/TI,PY,AZ/25 (Item 11 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00557366
GAS TURBINE ENGINE
TURBOMACHINE
Publication Year: 2000

11/TI,PY,AZ/26 (Item 12 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00325456
CONTROL OF TRANSITIONS BETWEEN POWER MANAGEMENT STATES IN A COMPUTER SYSTEM
COMMANDE DE TRANSITIONS ENTRE DES ETATS DE GESTION DE PUISSANCE DANS UN
SYSTEME INFORMATIQUE
Publication Year: 1996

11/TI,PY,AZ/27 (Item 13 from file: 349)
DIALOG(R)File 349:(c) 2003 WIPO/Univentio. All rts. reserv.

00325455
PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT
REALISATION DE TACHES DE SYSTEME AVANT LA MISE HORS TENSION A L'AIDE DE
L'INTERRUPTION DE GESTION DE SYSTEME
Publication Year: 1996

11/3,K/5 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

00879276

Suspend induced by AC power disturbance
Durch eine Wechselstörung verursachter Wartezustand
Mise en attente provoquée par une perturbation de l'alimentation en courant alternatif

PATENT ASSIGNEE:

INTERNATIONAL BUSINESS MACHINES CORPORATION, (200123), , Armonk, NY
10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Benson IV, Paul Harrison, 3300 Cobblestone Court, Raleigh, North Carolina
27613, (US)
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, (US)
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Norris, Duane Edward, 4321 Dutch Garden Court, Raleigh, North Carolina
27613, (US)

LEGAL REPRESENTATIVE:

Zerbi, Guido Maria (77893), Intellectual Property Department, IBM United
Kingdom Ltd., Hursley Park, Winchester, Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 805386 A1 971105 (Basic)

APPLICATION (CC, No, Date): EP 97302457 970410;

PRIORITY (CC, No, Date): US 639638 960429

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-001/30;

ABSTRACT WORD COUNT: 165

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9710W5	2345
SPEC A	(English)	9710W5	20937
Total word count - document A			23282
Total word count - document B			0
Total word count - documents A + B			23282

...SPECIFICATION the user can finally release the switch 21 with the
knowledge that the microcontroller is now controlling the power
supply 17. To use this backup option, the user must press the button 21
for a...

11/3,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

00765196

CONTROL OF TRANSITIONS BETWEEN POWER MANAGEMENT STATES IN A COMPUTER SYSTEM
STEUERUNG DER UBERGANGE DER LEISTUNGSVERWALTUNGSZUSTANDE IN EINEM
RECHNERSYSTEM

COMMANDE DE TRANSITIONS ENTRE DES ETATS DE GESTION DE PUISSANCE DANS UN
SYSTEME INFORMATIQUE

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,
Armonk, N.Y. 10504, (US), (Proprietor designated states: all)

INVENTOR:

CRUMP, Dwayne, Thomas, 538 Woodbine Road, Lexington, KY 40503, (US)
PANCOAST, Steven, Taylor, 3325 Pastern Court, Lexington, KY 40513, (US)
NORRIS, Duane, Edward, Apartment 2049 305 Lindenhurst Drive, Lexington,
KY 40509, (US)
BENSON IV, Paul, Harrison, 310 Cochran Road, Lexington, KY 40502, (US)

LEGAL REPRESENTATIVE:

Ling, Christopher John (80401), IBM United Kingdom Limited, Intellectual

Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)
 PATENT (CC, No, Kind, Date): EP 780001 A1 970625 (Basic)
 EP 780001 B1 991229
 WO 9607964 960314
 APPLICATION (CC, No, Date): EP 95930601 950831; WO 95GB2055 950831
 PRIORITY (CC, No, Date): US 302147 940907
 DESIGNATED STATES: BE; DE; FR; GB; IT; NL
 INTERNATIONAL PATENT CLASS: G06F-001/30
 NOTE:

No A-document published by EPO
 LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	199952	735
CLAIMS B	(German)	199952	637
CLAIMS B	(French)	199952	856
SPEC B	(English)	199952	36174
Total word count - document A			0
Total word count - document B			38402
Total word count - documents A + B			38402

...SPECIFICATION the user can finally release the switch 21 with the knowledge that the microcontroller is now controlling the power supply 17. To use this backup option, the user must press the button 21 for a...

11/3,K/8 (Item 8 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2003 European Patent Office. All rts. reserv.

00765195

PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT
 DURCHFUHRUNG VON SYSTEMAUFGABEN BEI STROMABSCHALTUNG DURCH VERWENDUNG VON
 SYSTEMVERWALTUNGSUNTERBRECHUNG
 REALISATION DE TACHES DE SYSTEME AVANT LA MISE HORS TENSION A L'AIDE DE
 L'INTERRUPTION DE GESTION DE SYSTEME

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,
 Armonk, N.Y. 10504, (US), (Proprietor designated states: all)

INVENTOR:

CRUMP, Dwayne, Thomas, 538 Woodbine Road, Lexington, KY 40503, (US)
 PANCOAST, Steven, Taylor, 3325 Pastern Court, Lexington, KY 40513, (US)
 LANDRY, John, Matthew, 1344 Corona Drive, Lexington, KY 40514, (US)
 BENSON, Paul, Harrison, IV, 310 Cochran Road, Lexington, KY 40502, (US)

LEGAL REPRESENTATIVE:

Ling, Christopher John (80401), IBM United Kingdom Limited, Intellectual
 Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 780000 A1 970625 (Basic)
 EP 780000 B1 991229
 WO 9607963 960314

APPLICATION (CC, No, Date): EP 95930600 950831; WO 95GB2054 950831
 PRIORITY (CC, No, Date): US 301464 940907
 DESIGNATED STATES: BE; DE; FR; GB; IT; NL
 INTERNATIONAL PATENT CLASS: G06F-001/30
 NOTE:

No A-document published by EPO
 LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	199952	776
CLAIMS B	(German)	199952	639
CLAIMS B	(French)	199952	908
SPEC B	(English)	199952	35542
Total word count - document A			0
Total word count - document B			37865

Total word count - documents A + B 37865

...SPECIFICATION the user can finally release the switch 21 with the knowledge that the microcontroller is **now controlling the power supply** 17. To use this backup option, the user must press the button 21 for a...

11/3,K/24 (Item 10 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00736340 **Image available**

WDM TRANSMITTER

EMETTEUR MRL

Patent Applicant/Assignee:

UNIVERSITY OF SOUTHAMPTON, Highfield, Southampton, Hampshire SO17 1BJ, GB
, GB (Residence), GB (Nationality), (For all designated states except:
US)

Patent Applicant/Inventor:

PAYNE David Neil, 13 Sylvan Lane, Hamble, Hampshire SO3 5QG, GB, GB
(Residence), GB (Nationality), (Designated only for: US)

ZERVAS Michael Nickolaos, 3 Clifford Dibben Mews, Avenue Road,
Southampton, Hampshire SO14 0TP, GB, GB (Residence), GR (Nationality),
(Designated only for: US)

IBSEN Morten, 10 Summit Way, Southampton, Hampshire SO18 4ST, GB, GB
(Residence), DK (Nationality), (Designated only for: US)

Legal Representative:

HAINES Miles John, D. Young & Co., 21 New Fetter Lane, London EC4A 1DA,
GB

Patent and Priority Information (Country Number Date):

Patent: WO 200049687 A1 20000824 (WO 0049687)

Application: WO 2000GB583 20000218 (PCT/WO GB0000583)

Priority Application: GB 993880 19990219

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5292

Fulltext Availability:

Detailed Description

Detailed Description

... is such that wavelength division multiplexing (WDM) of optical channels is required to overcome the **bottleneck** in capacity which arises in time-division multiplexed (TDM), single-wavelength systems due to speed limitations of electronic circuits. State-of-the-art commercial systems use up to sixteen **simultaneous** channels 1 5 to **increase** system **capacity** but the demand for capacity will continue to increase.

Although the capacity of the third...

11/3,K/27 (Item 13 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00325455

PERFORMING SYSTEM TASKS AT POWER-OFF USING SYSTEM MANAGEMENT INTERRUPT

REALISATION DE TACHES DE SYSTEME AVANT LA MISE HORS TENSION A L'AIDE DE
L'INTERRUPTION DE GESTION DE SYSTEME

Patent Applicant/Assignee:

INTERNATIONAL BUSINESS MACHINES CORPORATION,
IBM UNITED KINGDOM LIMITED,

Inventor(s):

CRUMP Dwayne Thomas,
PANCOAST Steven Taylor,
LANDRY John Matthew,
BENSON Paul Harrison IV,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9607963 A1 19960314

Application: WO 95GB2054 19950831 (PCT/WO GB9502054)

Priority Application: US 94301464 19940907

Designated States: CZ HU PL RU AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT
SE

Publication Language: English

Fulltext Word Count: 37686

Fulltext Availability:

Detailed Description

Detailed Description

... the user can finally release tile switch 21 with the
knowledge that tile microcontroller is now controlling the power
supply 17.

To ivie this brickup option, the user must press the button 21 for a...

File 347:JAPIO Oct 1976-2003/May(Updated 030902)
 (c) 2003 JPO & JAPIO
 File 350:Derwent WPIX 1963-2003/UD,UM &UP=200363
 (c) 2003 Thomson Derwent
 File 35:Dissertation Abs Online 1861-2003/Sep
 (c) 2003 ProQuest Info&Learning
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
 (c) 2002 The Gale Group
 File 65:Inside Conferences 1993-2003/Oct W1
 (c) 2003 BLDSC all rts. reserv.
 File 2:INSPEC 1969-2003/Sep W4
 (c) 2003 Institution of Electrical Engineers
 File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
 (c) 2003, EBSCO Pub.
 File 474:New York Times Abs 1969-2003/Oct 03
 (c) 2003 The New York Times
 File 475:Wall Street Journal Abs 1973-2003/Oct 03
 (c) 2003 The New York Times
 File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Aug
 (c) 2003 The HW Wilson Co.
 File 95:TEME-Technology & Management 1989-2003/Sep W3
 (c) 2003 FIZ TECHNIK
 File 15:ABI/Inform(R) 1971-2003/Oct 04
 (c) 2003 ProQuest Info&Learning
 File 9:Business & Industry(R) Jul/1994-2003/Oct 03
 (c) 2003 Resp. DB Svcs.
 File 610:Business Wire 1999-2003/Oct 06
 (c) 2003 Business Wire.
 File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
 File 275:Gale Group Computer DB(TM) 1983-2003/Oct 03
 (c) 2003 The Gale Group
 File 476:Financial Times Fulltext 1982-2003/Oct 06
 (c) 2003 Financial Times Ltd
 File 624:McGraw-Hill Publications 1985-2003/Oct 03
 (c) 2003 McGraw-Hill Co. Inc
 File 636:Gale Group Newsletter DB(TM) 1987-2003/Oct 03
 (c) 2003 The Gale Group
 File 621:Gale Group New Prod.Annou.(R) 1985-2003/Oct 06
 (c) 2003 The Gale Group
 File 613:PR Newswire 1999-2003/Oct 06
 (c) 2003 PR Newswire Association Inc
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
 File 16:Gale Group PROMT(R) 1990-2003/Oct 03
 (c) 2003 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 634:San Jose Mercury Jun 1985-2003/Oct 04
 (c) 2003 San Jose Mercury News
 File 148:Gale Group Trade & Industry DB 1976-2003/Oct 06
 (c)2003 The Gale Group
 File 20:Dialog Global Reporter 1997-2003/Oct 06
 (c) 2003 The Dialog Corp.
 File 995:NewsRoom 2000
 (c) 2003 The Dialog Corporation

Set	Items	Description
S1	6	AU='CAZALET E G'
S2	1	AU='FU CHENGJIANG'
S3	10	AU='SAMUELSON R':AU='SAMUELSON R N'
S4	3	AU='STREMEL, JOHN' OR AU='STREMEL, JOHN P'
S5	42	AU='TENEV T':AU='TENEV TICHOMIR G' OR AU='TENEV, T.':AU='T- ENEV, TIHOMIR'
S6	9	(S1 OR S2 OR S3 OR S4 OR S5) AND POWER

6/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

015015655 **Image available**
WPI Acc No: 2003-076172/200307
Related WPI Acc No: 2001-335620; 2001-580917; 2001-580918; 2002-049656;
2002-089942; 2002-434191
XRPX Acc No: N03-059020

Process for bundling and trading energy and transmission rights searches continuously for ways to disassemble sale bundles into component elements of rights

Patent Assignee: SAMUELSON R (SAMU-I); AUTOMATED POWER EXCHANGE INC
(AUTO-N)

Inventor: **SAMUELSON R ; TENEV T**
Number of Countries: 092 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 2002103465	A2	20021227	WO 2002US15719	A	20020515	200307 B
WO 200317030	A2	20030227	WO 2002US23762	A	20020726	200316
US 20030055776	A1	20030320	US 2001291218	P	20010515	200327
			US 2001932694	A	20010816	
			US 2002146511	A	20020514	

Priority Applications (No Type Date): US 2002146511 A 20020514; US
2001291218 P 20010515; US 2001932694 A 20010816

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 2002103465	A2	E	266	G06F-000/00	
Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW					
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW					
WO 200317030	A2	E		G06F-000/00	
Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW					
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW					
US 20030055776	A1			G06F-017/60	Provisional application US 2001291218

CIP of application US 2001932694

Abstract (Basic): WO 2002103465 A2

NOVELTY - Method consists in accepting participant offers to sell complete bundles of energy and transmission rights, allowing participants to enter bids, disassembling and re-assembling the sale bundles by a continuous search contracting orders for bid and sale bundles if aggregate bids exceed aggregate offers. A price quote is generated for a point-to-point transmission right for a participant on demand, if component elements are not needed by any bid bundles they are returned to the owner, and a price quote for energy at a particular location for a participant is generated on demand.

DETAILED DESCRIPTION - There is an INDEPENDENT CLAIM for an apparatus for bundling and trading energy and transmission rights.

USE - Method is for trading, operational scheduling and settling transactions of grid electrical power.

ADVANTAGE - Method allows participants to obtain accurate ex ante quotes for energy and transmission rights.

DESCRIPTION OF DRAWING(S) - The figure shows certified clients controlling means for using a transaction system.

pp; 266 DwgNo 2a/51

Title Terms: PROCESS; BUNDLE; TRADE; ENERGY; TRANSMISSION; SEARCH;

CONTINUOUS; WAY; DISASSEMBLE; SALE; BUNDLE; COMPONENT; ELEMENT
Derwent Class: T01
International Patent Class (Main): G06F-000/00; G06F-017/60
File Segment: EPI

6/5/2 (Item 2 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014659355 **Image available**
WPI Acc No: 2002-480059/200251
XRPX Acc No: N02-379105

Method of operating client computer including market engine, scheduling engine and settlement engine by receiving credit message based upon at least one member of collection comprising commitment and invoice

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: CAZALET E G ; SAMUELSON R ; STREMEL J; TENEV T
Number of Countries: 094 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200244853	A2	20020606	WO 2001US44842	A	20011115	200251 B
AU 200237688	A	20020611	AU 200237688	A	20011115	200264

Priority Applications (No Type Date): US 2000724650 A 20001128

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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WO 200244853	A2	E 187	G06F-000/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

AU 200237688	A		G06F-000/00	Based on patent WO 200244853
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Abstract (Basic): WO 200244853 A2

NOVELTY - A production schedule involves at least one of the fungible, ephemeral commodities in at least one of the market intervals to create the authenticated received message. An invoice regarding the commodities may create the authenticated received message. A credit message is based upon at least one member of the collection comprising the commitment and the invoice to create the authenticated received message.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for:

(a) a client system supporting at least one certified client transaction regarding market intervals

USE - For operating a client computer for trading, operational scheduling, and settling transactions involving ephemeral, fungible commodities with regards to trading electrical power as applied to grids of one or more AC power networks.

ADVANTAGE - Optimizes the scheduling, congestion management, ancillary services, metering, billing and settlements of accounts for electrical grids. Complies with the physics of AC power networks. Trades generation and transmission rights in a timely, reliable and efficient manner which automatically guarantees correct operation of the power grid. Provides not only trading in futures, but also ancillary services and various attributes of the traded commodities.

DESCRIPTION OF DRAWING(S) - The drawing shows a detailed flowchart performing receiving an authentication message according to the present invention.

pp; 187 DwgNo 29/45

Title Terms: METHOD; OPERATE; CLIENT; COMPUTER; MARKET; ENGINE; SCHEDULE;
ENGINE; SETTLE; ENGINE; RECEIVE; CREDIT; MESSAGE; BASED; ONE; MEMBER;
COLLECT; COMPRISE; INVOICING

Derwent Class: T01

International Patent Class (Main): G06F-000/00
File Segment: EPI

6/5/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014269244 **Image available**
WPI Acc No: 2002-089942/200212
Related WPI Acc No: 2001-335620; 2001-580917; 2001-580918; 2002-049656;
2002-434191; 2003-076172
XRPX Acc No: N02-066247

Computing system for operational scheduling and trading of electrical
power as applied to grids of AC power networks.

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)

Inventor: CAZALET E G ; SAMUELSON R ; STREMEL J; TENEV T

Number of Countries: 091 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200190996	A2	20011129	WO 2001US15858	A	20010516	200212 B
AU 200163198	A	20011203	AU 200163198	A	20010516	200221

Priority Applications (No Type Date): US 2000613685 A 20000711; US
2000206852 P 20000523

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200190996	A2	E	201	G06F-017/60	
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Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200163198	A			G06F-017/60	Based on patent WO 200190996
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Abstract (Basic): WO 200190996 A2

NOVELTY - The computing system supports transactions involving
ephemeral commodities such as electrical power and its transmission,
and trading such commodities to create commitments, scheduling, and
settling the commitments. The system includes a market engine that
supports a virtual trading floor and external market trading by
certified clients of the system.

DETAILED DESCRIPTION - An independent claim is included for a
method of interacting with clients.

USE - To integrate trading activities and scheduling for certified
clients.

ADVANTAGE - Upgrades of one component do not affect the integrity
of other components.

DESCRIPTION OF DRAWING(S) - Flow chart showing interaction between
clients

pp; 201 DwgNo 1A/29

Title Terms: COMPUTATION; SYSTEM; OPERATE; SCHEDULE; TRADE; ELECTRIC;

POWER ; APPLY; GRID; AC; POWER ; NETWORK

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

6/5/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014096704 **Image available**
WPI Acc No: 2001-580918/200165
Related WPI Acc No: 2001-335620; 2001-580917; 2002-049656; 2002-089942;

2002-434191; 2003-076172
XRPX Acc No: N01-432692

Method of planning device for trading and traded electrical power as applied to grids of one or more AC power networks by examining knowledge interval collection based upon ephemeral, fungible commodity needs over planning interval

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)

Inventor: CAZALET E G ; TENEV T

Number of Countries: 091 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200141280	A1	20010607	WO 2000US30712	A	20001107	200165 B
AU 200113633	A	20010612	AU 200113633	A	20001107	200165
NO 200202595	A	20020731	WO 2000US30712	A	20001107	200263
			NO 20022595	A	20020531	
EP 1234369	A1	20020828	EP 2000975612	A	20001107	200264
			WO 2000US30712	A	20001107	
JP 2003521025	W	20030708	WO 2000US30712	A	20001107	200347
			JP 2001542441	A	20001107	

Priority Applications (No Type Date): US 2000613685 A 20000711; US 99168478 P 19991201

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200141280 A1 E 179 H02J-003/00

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200113633 A H02J-003/00 Based on patent WO 200141280

NO 200202595 A H02J-000/00

EP 1234369 A1 E H02J-003/00 Based on patent WO 200141280

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

JP 2003521025 W 192 G06F-019/00 Based on patent WO 200141280

Abstract (Basic): WO 200141280 A1

NOVELTY - The method involves determining the ephemeral, fungible commodity needs over a planning time interval. The knowledge interval collection is examined based upon the ephemeral, fungible commodity needs over the planning time interval to create a device operating schedule. A first knowledge interval of the ephemeral, fungible commodity may be created at a first time interval containing a first cost in the knowledge interval collection.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:

- (a) a program operating system supporting claimed method
- (b) a computing system supporting claimed method
- (c) a control system controlling a device consuming an ephemeral fungible commodity based upon a knowledge interval collection

USE - For planning and managing the operation of devices using ephemeral, fungible commodities with regards to trading and traded electrical power as applied to grids of one or more AC power networks.

ADVANTAGE - Allows to meter usage and cost of such devices under operation based upon the time variations in the economics. Optimizes the scheduling, congestion management, ancillary services, metering, billing and settlements of accounts for electrical grids, complies with the physics of AC power networks. Controls the devices based upon trading generation and transmission rights in a timely, reliable and efficient manner, which automatically guarantees correct operation of the power grid.

DESCRIPTION OF DRAWING(S) - The drawing shows a flowchart of a method of planing device according to the present invention.

pp; 179 DwgNo 4a/40

Title Terms: METHOD; PLAN; DEVICE; TRADE; ELECTRIC; POWER ; APPLY; GRID;
ONE; MORE; AC; POWER ; NETWORK; INTERVAL; COLLECT; BASED; FUNGIBLE;
COMMODITY; NEED; PLAN; INTERVAL
Derwent Class: T01; X12
International Patent Class (Main): G06F-019/00; H02J-000/00; H02J-003/00
International Patent Class (Additional): G06F-017/60; H02J-003/14;
H02J-003/46
File Segment: EPI

6/5/5 (Item 5 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014096703 **Image available**
WPI Acc No: 2001-580917/200165
Related WPI Acc No: 2001-335620; 2001-580918; 2002-049656; 2002-089942;
2002-434191; 2003-076172
XRPX Acc No: N01-432691

**System for managing AC power networks based on flow-gate market
transactions by contracting power transfer on each flow gate of the
gate collection**

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)
Inventor: CAZALET E G ; FU C; SAMUELSON R ; STREMEL J; TENEV T
Number of Countries: 091 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200141279	A1	20010607	WO 2000US22487	A	20000816	200165 B
AU 200067781	A	20010612	AU 200067781	A	20000816	200165
NO 200202555	A	20020717	WO 2000US22487	A	20000816	200260
			NO 20022555	A	20020529	
EP 1234368	A1	20020828	EP 2000955602	A	20000816	200264
			WO 2000US22487	A	20000816	

Priority Applications (No Type Date): US 2000542854 A 20000404; US 99168213
P 19991130; US 99163213 P 19991130

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200141279 A1 E 99 H02J-003/00
Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW
AU 200067781 A H02J-003/00 Based on patent WO 200141279
NO 200202555 A H02J-000/00
EP 1234368 A1 E H02J-003/00 Based on patent WO 200141279
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200141279 A1

NOVELTY - A flow of execution (1060) for a starting operation
(1022) goes to an operation (1062), performing contracting of the
associated AC power transfer on each of the flow gates of the flow
gate collection, to take place over at least a first time interval,
while the execution (1064) for operation (1062) flows to an operation
(1060), terminating the operation of the flow chart. The operations are
supported by a program code segment recording in a computer memory.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for a method
for contracting AC power transfer on an AC power network and for a
computer system supporting program.

USE - Controlling AC electrical power transfer in a frequency
controlled AC power network.

ADVANTAGE - Trading transfer rights in a timely, reliable and
efficient manner.

DESCRIPTION OF DRAWING(S) - The drawing shows operation of the flow transfer over a first time interval.

pp; 99 DwgNo 6/36

Title Terms: SYSTEM; MANAGE; AC; POWER ; NETWORK; BASED; FLOW; GATE;
MARKET; TRANSACTION; CONTRACT; POWER ; TRANSFER; FLOW; GATE; GATE;
COLLECT

Derwent Class: T01; X12

International Patent Class (Main): H02J-000/00; H02J-003/00

International Patent Class (Additional): G06F-017/60

File Segment: EPI

6/5/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013851407 **Image available**

WPI Acc No: 2001-335620/200135

Related WPI Acc No: 2001-580917; 2001-580918; 2002-049656; 2002-089942;

2002-434191; 2003-076172

SRPX Acc No: N01-242299

Trading method for ephemeral, fungible commodities of electrical power grid comprising AC power network, to provide virtual trading floor for trading fungible, ephemeral commodities including electrical energy

Patent Assignee: AUTOMATED POWER EXCHANGE INC (AUTO-N)

Inventor: CAZALET E G ; TENEV T

Number of Countries: 091 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200128063	A1	20010419	WO 2000US22489	A	20000816	200135 B
AU 200067782	A	20010423	AU 200067782	A	20000816	200147
NO 200201628	A	20020605	WO 2000US22489	A	20000816	200250
			NO 20021628	A	20020405	
EP 1218999	A1	20020703	EP 2000955603	A	20000816	200251
			WO 2000US22489	A	20000816	
JP 2003525005	W	20030819	WO 2000US22489	A	20000816	200356
			JP 2001530175	A	20000816	

Priority Applications (No Type Date): US 2000564415 A 20000502; US 99158603
P 19991008

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200128063 A1 E 100 H02J-003/00

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200067782 A H02J-003/00 Based on patent WO 200128063

NO 200201628 A H02J-000/00

EP 1218999 A1 E H02J-003/00 Based on patent WO 200128063

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

JP 2003525005 W 113 H02J-003/00 Based on patent WO 200128063

Abstract (Basic): WO 200128063 A1

NOVELTY - The method involves maintaining market a market interval collection of market intervals, and maintaining a validated order collection of validated orders, each with an associated market interval.

DETAILED DESCRIPTION - The method involves trading ephemeral, fungible commodities of an electrical power grid containing at least one AC power network each containing a node collection of at least two nodes. The method involves maintaining a market interval collection of market intervals, and maintaining a validated order collection of

validated orders, each within an associated market interval. Each market interval contains a product type, location and at least one time interval. INDEPENDENT CLAIMS are included for; a program operating system composed of program code segments for supporting a method for trading for ephemeral, fungible commodities of electrical power grid comprising AC power network.

USE - Virtual trading floor for trading fungible, ephemeral commodities including electrical energy.

ADVANTAGE - Allows for complex orders to be processed, such that energy may be ordered along with the transmission rights for that power.

DESCRIPTION OF DRAWING(S) - The drawing shows a virtual trading floor containing validated orders and market intervals with associated market states in accordance with the invention.

Virtual trading floor (100)

Market states (1102, 1122, 1142, 1162)

Market intervals (1100, 1200, 1140, 1160)

Validated order (1200, 1210, 1220, 1230, 1240, 1250)

pp; 100 DwgNo 3/25

Title Terms: TRADE; METHOD; FUNGIBLE; COMMODITY; ELECTRIC; POWER; GRID; COMPRISE; AC; POWER; NETWORK; VIRTUAL; TRADE; FLOOR; TRADE; FUNGIBLE; COMMODITY; ELECTRIC; ENERGY

Derwent Class: T01; X12

International Patent Class (Main): H02J-000/00; H02J-003/00

International Patent Class (Additional): G06F-017/60

File Segment: EPI

6/5/7 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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5761561 INSPEC Abstract Number: C9801-6130B-018

Title: Managing multiple focal levels in Table Lens

Author(s): Tenev, T. ; Rao, R.

Author Affiliation: Xerox Palo Alto Res. Center, CA, USA

Conference Title: Proceedings. IEEE Symposium on Information

Visualization (Cat. No.97TB100195) p.59-63, 122

Editor(s): Dill, J.; Gershon, N.

Publisher: IEEE Comput. Soc, Los Alamitos, CA, USA

Publication Date: 1997 Country of Publication: USA xvi+127 pp.

ISBN: 0 8186 8189 6 Material Identity Number: XX97-02762

U.S. Copyright Clearance Center Code: 0 8186 8189 6/97/\$10.00

Conference Title: Proceedings of VIZ '97: Visualization Conference, Information Visualization Symposium and Parallel Rendering Symposium

Conference Sponsor: IEEE Comput. Soc. Tech. Committee on Comput. Graphics

Conference Date: 20-21 Oct. 1997 Conference Location: Phoenix, AZ, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The Table Lens, focus+context visualization for large data tables, allows users to see 100 times as many data values as a spreadsheet in the same screen space in a manner that enables an extremely immediate form of exploratory data analysis. In the original Table Lens design, data are shown in the context area using graphical representations in a single pixel row. Scaling up the Table Lens technique beyond approximately 500 cases (rows) by 40 variables (columns) requires not showing every value individually and thus raises challenges for preserving the exploratory and navigational ease and power of the original design. We describe two design enhancements for introducing regions of less than a pixel row for each data value and discuss the issues raised by each. (6 Refs)

Subfile: C

Descriptors: data analysis; data visualisation; user interfaces; very large databases

Identifiers: multiple focal level management; Table Lens; focus visualization; context visualization; large data tables; data values; spreadsheet; screen space; exploratory data analysis; graphical

representations; single pixel row; design enhancements; user interface
Class Codes: C6130B (Graphics techniques); C6180 (User interfaces);
C6160Z (Other DBMS)
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6/5/8 (Item 1 from file: 99)
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
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0533134 H.W. WILSON RECORD NUMBER: BAST84025947
**Modeling generating unit size and economics of scale in capacity expansion
with an efficient, real number representation of capacity additions**
Caramanis, Michael; Stremel, John P ; Charny, Leonid
IEEE Transactions on Power Apparatus and Systems v. 103 (Mar. '84) p.
506-13
DOCUMENT TYPE: Feature Article ISSN: 0018-9510 LANGUAGE: English
RECORD STATUS: New record

DESCRIPTORS: Electric power plants--Costs; Electric utilities--
Development work; Programming (Mathematics;

6/5/9 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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00430264 89-02051
How an Electric Utility Cost Model Can Be Validated
Stremel, John ; Stillinger, William
Public Utilities Fortnightly v122n12 PP: 17-20 Dec 8, 1988 CODEN: PUFNAV
ISSN: 0033-3808 JRNL CODE: PUF
DOC TYPE: Journal article LANGUAGE: English LENGTH: 4 Pages
SPECIAL FEATURE: Charts

ABSTRACT: A simple but elegant series of objective tests is presented to
set necessary conditions for the acceptance of forecast results from an
electric utility production cost model. Referred to as the "acid test"
approach, the basic premise is that a model must be able to simulate a
simple situation accurately before confidence can be established that a
more complex utility system can be represented. The test's **power** comes
from the ability to know and compare the "correct" or true answer against
the results of any other model. A fictitious system of 6 thermal generating
units and one pumped hydro unit is used, and the model is put through a
series of tests that examine key constraints. The acid test approach was
developed as part of the acceptance procedure for a production cost model
sponsored and codeveloped by Northeast Utilities Service Co.

COMPANY NAMES:
Northeast Utilities (DUNS:00-695-3418 TICKER:NU)

DESCRIPTORS: Electric utilities; Production costs; Models; Validation;
Methods; Accuracy; Computer based modeling; Marginal costs
CLASSIFICATION CODES: 8340 (CN=Electric, water & gas utilities); 3100
(CN=Capital & debt management)